

SCHOLASTIC COACH

Oberlin College Library

JUN 22 1948

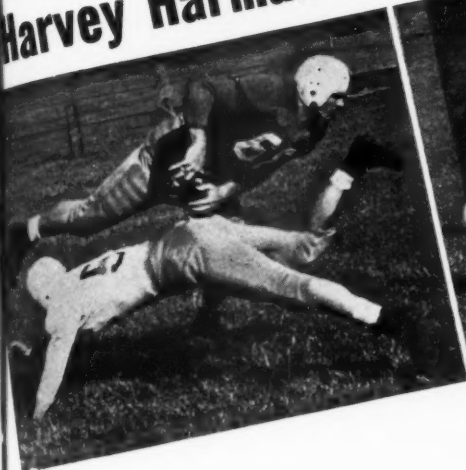


**Buyer's Guide
and Directory**

JUNE 1949 • 25c



**Line Play by
Harvey Harman**



**Notre Dame's Quick
Opener by Frank Leahy**



from start...

to finish...

...every inch a CHAMPION

● Every Gold Medal Champion is made from special twine, twisted in our own plant from selected cotton.

● Every leg of every mesh is firmly knotted to exact measurements.

● Patented attachment of special top, bottom and end bindings neutralizes strains and stresses.

● Every Gold Medal Champion receives a special tar finish, the one best protective coating thus far discovered for preventing mesh spread, improving net hang, sealing every strand against wet- or dry-rot.

On court after court, in match after match, Gold Medal Champion tennis nets have proved their championship quality. Nothing less will meet your requirements as well.

Makers of
fine nettings
for 107 years

Gold Medal Nets
THE LINEN THREAD CO., INC.
418 GRAND STREET, PATERSON 1, N. J.

New York 17, N. Y. • Baltimore 3, Md. • Boston 10, Mass. • Chicago 10, Ill. • San Francisco 5, Cal. • Philadelphia 6, Pa. • Gloucester, Mass.



**NEXT TIME, PAL
TRUST YOUR TOOTSIES
TO SPALDING'S**

1949 NCAA

**Baseball
Playoffs**

**Wichita, Kansas
Beginning June 22**



You can't put your foot in a better basketball shoe than the new Spalding SS. In fact, you can't put ALL TEN FEET of that basketball quintet of yours in better shoes than these feather-light, super-tough floor-grippers.

Non-marking, red-molded soles with non-slip "S" design let you stop on a dime. Uppers are best-grade Army duck, reinforced and loose-lined. Spalding-type cushioned sport arch and heel provide added comfort during long wear.

You'll have to go some to *equal* these shoes—and you'll have to go mighty, mighty far to wear 'em out!



The SS-W shown above with white uppers, is also available as the SS-B, with black uppers.

SPALDING

SETS THE PACE IN SPORTS



THE BEST  IN SPORTS

Ask your dealer
about
Sportcraft
Equipment for
BADMINTON

Rackets
R.S.L. Shuttlecocks
R.S.L. Timpe Shuttlecocks
Badminton Sets

TENNIS

Rackets by Slazenger's (English)
Slazenger's Balls

DECK TENNIS

Rings
Complete Sets

QUOITS

Complete Sets
Large School Type Sets

SOCCER

English Soccer Shoes
English Soccer Balls
Shinguards

SHUFFLEBOARD

Complete Sets
4 Pushers and 8 Discs

FIELD HOCKEY

English Hockey Sticks
Balls
Guards

TABLE TENNIS

Bats, Nets, Balls
Complete Sets

FENCING

Foils (French)
Gloves
Blades

BAT TENNIS

Bats
Balls
Complete Sets



Write for free copies of rules' book-
lets for Badminton, Deck Tennis,
Shuffleboard, Table Tennis, Bat Ten-
nis; and the address of your near-
est dealer carrying Sportcraft
Equipment.

GENERAL *Sportcraft* COMPANY

215 Fourth Ave., New York, N. Y.

SCHOLASTIC COACH

Reg. U. S. Pat. Off.

VOLUME 18 • NUMBER 10 • JUNE

IN THIS ISSUE

HERE BELOW (For Dear Old Rutgers)	5
NOTRE DAME'S QUICK OPENER by Frank Leahy	7
DEFENSIVE LINE STUNTS by Harvey Harman	11
OUTSIDE ATTACK FROM THE STRAIGHT T by Robert C. MacKenzie ..	14
FOOTBALL PRACTICE DEVICES by Emil Lamar	20
NEW EQUIPMENT	22
BUYER'S GUIDE AND DIRECTORY	25
INDEX TO SCHOLASTIC COACH ARTICLES, 1948-49	37
SCHOLASTIC COACH ADVERTISERS, 1948-49	38
PICK YOUR COACH AND COACHING SCHOOL	40
NOON-HOUR INTRAMURALS by Roland F. Ross	42
NEW BOOKS ON THE SPORTSHELF	52
COACHES' CORNER	58
STUDENT SPORTSMANSHIP	61

Publisher • G. HERBERT McCRACKEN

Editor • HERMAN L. MASIN

Advertising Manager • OWEN REED

Art Director • M. J. DUNTON

SCHOLASTIC COACH IS ISSUED MONTHLY TEN TIMES DURING THE ACADEMIC YEAR (SEPTEMBER THROUGH JUNE) BY SCHOLASTIC CORPORATION, M. R. ROBINSON, PRESIDENT, PUBLISHERS OF SCHOLASTIC MAGAZINES FOR HIGH SCHOOL STUDENTS.

ADDRESS ALL EDITORIAL AND ADVERTISING COMMUNICATIONS AND ALL CORRESPONDENCE CONCERNING SUBSCRIPTIONS AND CIRCULATION TO SCHOLASTIC COACH, 7 EAST 12TH STREET, NEW YORK 3, N. Y.

SUBSCRIPTION FOR THE UNITED STATES, \$2 A YEAR. CANADA, \$2.25. FOREIGN, \$2.50. BACK ISSUES, CURRENT VOLUME, 25c; PREVIOUS VOLUMES, 50c.

THE ENTIRE CONTENTS OF SCHOLASTIC COACH COPYRIGHTED, 1949, BY SCHOLASTIC CORPORATION.

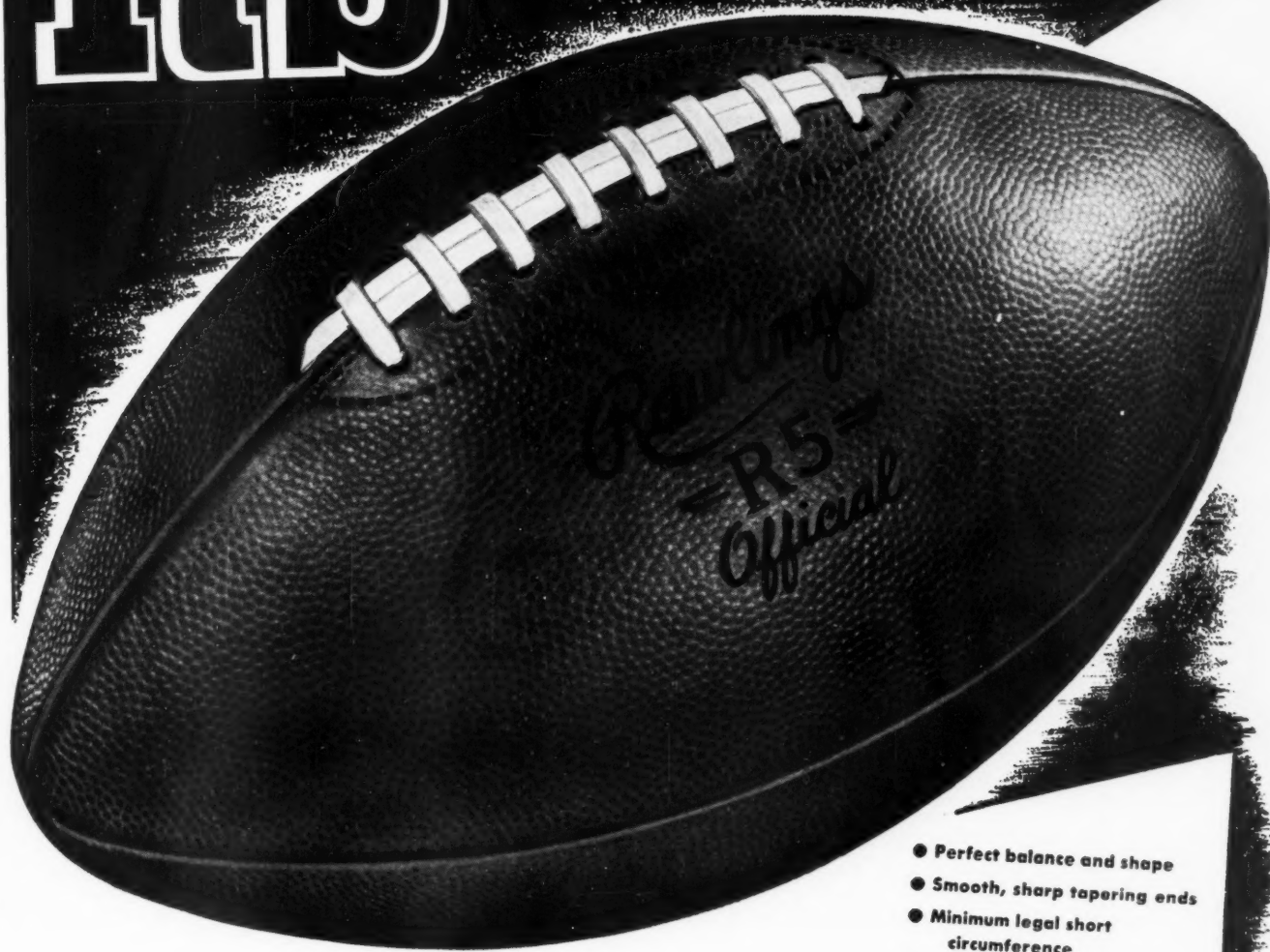
SCHOLASTIC COACH IS A MEMBER OF THE CONTROLLED CIRCULATION AUDIT, A BUREAU FOR EXAMINING AND AUDITING CIRCULATION FIGURES FOR THE PROTECTION OF ADVERTISERS. CCA STATEMENTS OF SCHOLASTIC COACH CIRCULATION SUPPLIED ON REQUEST. THROUGH THIS SERVICE, SCHOLASTIC COACH ADVERTISERS RECEIVE INCONVERTIBLE EVIDENCE OF THE CIRCULATION THEY ARE PAYING FOR.



Another Gridiron Great!

R5

Official



- Perfect balance and shape
- Smooth, sharp tapering ends
- Minimum legal short circumference
- Sure-grip non-slip finish
- Greater kicking distance
- Positive accuracy in flight
- More dependable, longer life

When It's Rawlings It's Right!

The famous Rawlings R5 — as perfect as a football can be made — fast becoming the universal preference on school and college gridirons coast to coast! Because it's Rawlings its quality combines everything the finest football should have:



Available in white leather as No. R5W or Yellow leather as R5Y (striped if desired).



IT PAYS TO PLAY

Rawlings Athletic Equipment

THE FINEST IN THE FIELD!

MANUFACTURING COMPANY • ST. LOUIS 3, MO.

Play Safe with **BROOKS** SHOES

SAFETY FEATURES OF BROOKS SHOES

● PATENTED LOCK-TITE CLEAT BOLT ASSEMBLY . . .

Cleats cannot come off in play,
to expose dangerous bolts;
bolts cannot "back up"
to cause blisters.

● NEW HEAVY-DUTY SAFETY CLEATS . . .

Will not chip or crack to create
sharp edges; wear down
smoothly, out-last average
cleats 3 to 1.

● SCIENTIFIC LAST & EXCLUSIVE ARCH SUPPORT . . .

Proper design reduces
fatigue, assures better
footing, increases speed.

● TOP GRADE LEATHERS & CONSTRUCTION . . .

Quality materials help shoe
hold its shape, give full
protection longer.

Injury-ridden teams seldom complete successful
schedules. Since every feature of BROOKS shoes is
planned for player-safety, equipping your squad with
the "Finest in Athletic Footwear" is the first step
toward a winning season.



BROOKS
SHOE MANUFACTURING CO.
58th & Market Sts. • Philadelphia 39, Pa.

The Finest in Athletic Footwear for All Sports





For dear old Rutgers

THE morticians on the banks of the old Raritan are crying in their embalming fluid these days. Business is terrible. It seems that nobody is dying for dear old Rutgers anymore.

The man to blame for this business recession is Harvey Harman. Ever since Harvey docked at New Brunswick, the Rutgers gridders no longer have to commit suicide in order to win a game.

The Scarlet elevens have become surprisingly puissant. They seldom lose more than a game or two a season, and if Harvey doesn't keep his tail down he may yet be nailed with one of those coach-of-the-year kudos.

Harvey is one of those unregenerate bassos profundo who learned the facts of life playing tackle for Pop Warner. He must have learned his lessons well, for his lines have come to be distinguished for their man-mangling demeanor.

Having always been impressed with the Harman style of line play, we decided to take a peek at it through our magic-eye camera. After giving Mr. Harman full warning, we descended upon him last month armed with a photographer and a ton or so of motion picture film.

HARVEY turned out to be a boulder-shaped gentleman well over six feet, who practically surrounded us with his bulk. Envisioning one of those shoulders plowing into an exposed rib, made us shiver. But Harvey didn't make a move at us. He stayed up in a two-point stance and proved as courteous and charming as a Republican stumping for votes in Alabama.

Before permitting us to set foot in his stadium, he insisted that we take a look at the Rutgers' athletic plant. "It's the finest plant in the world," he vouchsafed. "We have eleven fields and a golf course."

So we stepped back into our baroque '36 Chevvy and prowled around the perimeter of the eleven

fields and golf course. Harvey's pride proved entirely justifiable. A cursory inspection showed that the Rutgers' plant is big enough and lush enough to raise buffalo on.

Upon returning to the stadium, we found Harvey lying full length on the five-yard line. Our first thought was that he had been hit by a copy of the Sanity Code. But Harvey quickly dispelled our fears. He looked up and smiled happily. "Look," he said, "I just found two four-leaf clovers!" We congratulated him on the success of his safari, and then went to work.

Harvey, the soul of cooperation, had four of his tigers in brand new uniforms waiting for us. Everything we asked them to do, and we asked plenty—17 individual offensive and defensive line stunts—the boys did. Not with any sang-froid, either. They tore into each other with the playfulness of starved jaguars.

Harvey and his line coach, Al Sabo, watched them with hawk-like intensity, criticizing their form and calling for retakes whenever necessary. Nothing escaped these two human lie detectors. Time and again they nailed some felony and had the boys repeat the stunt. Both being perfectionists, they kept shaking their heads sadly. To our semi-professional eyes, however, the boys looked perfectly wonderful.

An hour later, the boys, a little worse for wear, were excused from the field and we followed shortly after. Just before leaving the field, we noticed an enormously muscled giant snaking over the high hurdles in surprisingly good form.

"That's Bucky Hatchett," beamed Harvey. Bucky is the great Rutgers' all-around athlete specializing in football, basketball, and track. So we unpacked our camera and had Bucky run some hurdles for our photographer.

Bucky tore over them as though fleeing a calculus quiz.

The track coach was delighted. "Haven't seen him run so hard since he came out for track," he told us.

A WEEK or so later we returned to Rutgers to give Harvey a look at the developed pictures. Harvey and his delightful wife picked us up at the station and insisted on feeding us before getting down to business.

We wound up at a Kiwanis luncheon, sandwiched between Harvey and the mayor of New Brunswick. We helped salute the flag and sing two verses of *America*, then pitched vigorously into the victuals.

After the food and the business part of the meeting had been dispensed with, the president of the club introduced the entertainment. "Our own quartet will now sing a few songs," he announced, a bit defensively we thought.

At least a dozen members immediately got to their feet, including Harvey. "Hey," he roared, "you can't walk out before hearing us sing at least one number. We're not that bad!"

That was our first inkling that Harvey was on the program. His fears about everybody walking out proved groundless. The boys were just turning their chairs around to get a better view of the quartet.

The quartet did nothing that could be construed as a death blow to music. With Harvey towering above the others like a Newfoundland dog among poodles, they sang two numbers which sounded vaguely familiar but which we never quite could identify. Harvey did rather nicely, lending an harmonic touch which clearly indicated a lot of practice in football shower rooms.

His low notes were especially distinctive, his D's hitting lower than a submarining guard.

We congratulated him warmly after he returned to his seat, but Harvey shook it off. "Weren't we lousy?" he grinned. "I never heard so many bad notes in my life." He paused for a moment, then added wistfully, "We had an encore all rehearsed but nobody asked for one." We didn't have to tell him why.

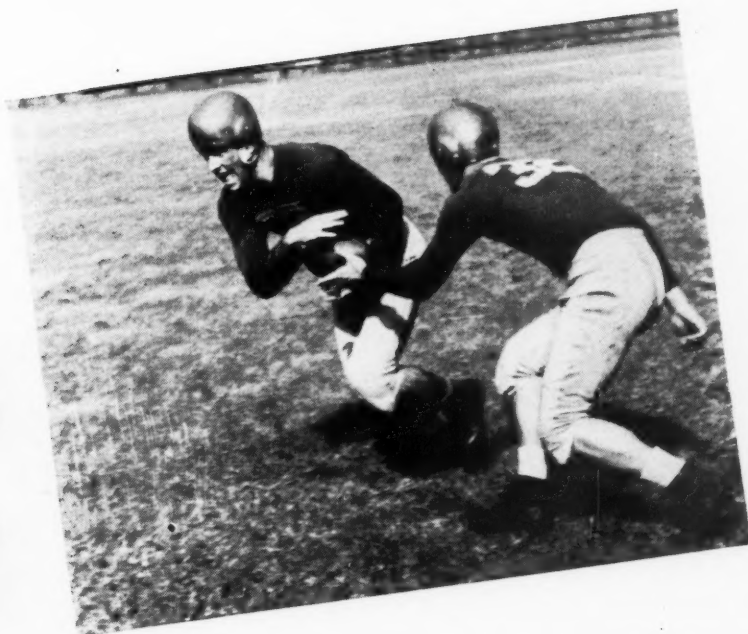
WITH THE STARS OF TENNIS

With the stars of tennis, modern features of construction in the equipment they use are of the utmost importance. That's why so many of them use Wilson *Strata-Bow* tennis rackets exclusively . . . and the Wilson "Championship" tennis ball is used in most national, sectional and state championship tournaments. Jack Kramer, Bobby Riggs, Don Budge and Alice Marble, members of the famous Wilson Advisory Staff, are among the stars who use and endorse Wilson rackets and balls. They say "*Play Wilson and you play the finest.*" Wilson Sporting Goods Co., Chicago. (A subsidiary of Wilson & Co., Inc.) Branch offices in New York, San Francisco and other principal cities.

Wilson THE LAST WORD
IN SPORTS EQUIPMENT

T
e
w
way
than
befo
happ
T
does
and
tack
reas
succ
upon
tary
A
lieve
play
form
that
to ex
ther
find
afte
W
run
time
gam
the
is at
brea
W
back
the
may
plan
if p
app
cut
hole
T
cuts
to h
JUN

Notre Dame's Quick Opener



BY *Frank Leahy*

THE "T" Formation is based on the element of surprise, and to my way of thinking there is no better way to capitalize on this element than to have an operation completed before the enemy realizes what is happening.

This is what play number "43" does for us. It is the most basic play and the most used play in our attack. I sincerely believe that the reason many coaches are not having success with the "T" is that they look upon this play as being too elementary to waste time on.

At Notre Dame, however, we believe that in order for any other plays to work successfully from this formation, it is absolutely essential that the opponent always be tensed to expect a quick-opener. If you have them in this frame of mind, you will find it much easier to make them go after a good fake.

We like to have our quarterbacks run "43" and its opposite, "22", many times during the course of every game, because after the first period the enemy tends to relax a bit, and it is at this time that our halfbacks can break into the clear.

We have a set pattern for our halfback to follow once he gets through the line. Naturally, circumstances may cause him to deviate from this plan, but we ask our ball-carrier, if possible, to go through the line for approximately five yards and then cut in the direction away from the hole side of the line.

That is, on a "43" the halfback cuts to his left, and on a "22" he cuts to his right. This permits the offside

end and tackle to get downfield ahead of the ball, and lend some assistance with the enemy backfield men.

Play "43", as mentioned earlier, means the No. 4 back through the No. 3 hole. This play may be run with either the left halfback or the fullback in motion or out on a flanker, or the quarterback may choose to spread an end just to disconcert the men across the line.

The success of this play depends mainly on the timing employed by the quarterback and the ball-carrier. It works so fast that they must meet perfectly in order to avoid a fumble. Work on this exchange in practice until your men can perform it without the slightest hesitation.

Assignments for the Quick-Opener: **Diag. 1** shows both "43" and "22" against a normal six-man line.

Since this defense is the one we most commonly face, we have devised two methods of combating it, with the best method being decided upon at the line of scrimmage by the on-side tackle. Many times the linebacker will move just as the quarterback

starts to call "Down," and it is then that the tackle may decide which of our two plans will work most advantageously.

As can be seen in the diagram, we have the defensive tackles lined up on the head of our ends; that is, directly opposite our flanker man. When "43" is called and the right tackle sees this setup at the line of scrimmage, he usually feels that our right end has a more advantageous blocking angle on the opposing tackle than he has.

Thus, he would call a blocking assignment that would send the end directly at the tackle while he would go through and block the on-side linebacker away from the hole.

We shall now outline the assignments exactly as we give them to our squad members every time we diagram a play for them. We go from end to end and then through the entire backfield.

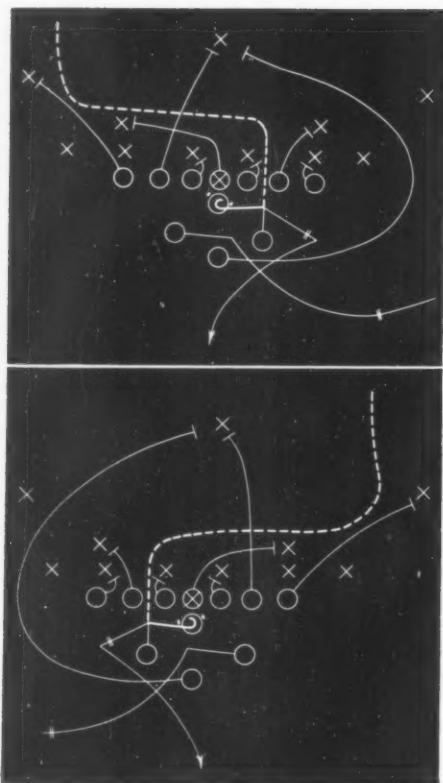
We call upon the *right end* to shoulder block the defensive left tackle toward the sidelines. He should keep driving him out until he is certain that the halfback is through the hole and down the field. When this duty is performed, he must head downfield to see if he can do some constructive blocking.

Our *right tackle* must spring out toward the linebacker. We ask him to head as if he were going past the man to get the halfback, and then cut back fast and bury his shoulder deep into the opponent's midsection. Our tackle continues to block the man until he is absolutely certain he can be of no harm to the play.

The *right guard* must get a fast charge at the man on his head and drive him away from the hole. He should be careful not to let the man pivot away from him or he may close the hole. This defender is the closest man to the hole, and we want him to have to go across the line in order to get away from our guard's blocking.

The *center* starts to sprint as soon as the ball leaves his hands. He sprints

THIS superb analysis of the T's bread-and-butter play is reprinted from Frank Leahy's new book, "Notre Dame Football: The T Formation," by permission of the publishers, Prentice-Hall, Inc. Copyright 1949 by Prentice-Hall, Inc. For a review of this splendidly detailed coaching text (\$2.25), refer to page 46 of last month's Scholastic Coach.



Diag. 1: Play 43 (top) and 22 (bottom) against a normal six-man line.

through the line until he is a bit deeper than the offside linebacker. As that man starts to move over into the play, our pivot man blocks him back toward the line of scrimmage. The play is coming in his direction, so the center must make certain this man is kept out of the play long enough to allow the halfback to be on his way.

Our left guard blocks the defensive guard away from the hole. We ask him to stay with the opponent for three full counts before releasing his block and heading downfield in the general direction of the ball-carrier, looking for anyone wearing the wrong colored shirt.

The left tackle is a downfield blocker. But he must not arrive there too soon or he will not be able to keep the safety man occupied long enough for the halfback to get free. He should wait until the man with the ball catches up with him and then place himself between the ball-carrier and the opponent. The block should never be made until the enemy is right next to him because a full body block is most effective on the important man. We tell our blockers that if they will stay with the ball-carrier the potential tacklers will come to them.

The left end employs the same tactics as the left tackle. His man is the defensive right halfback, and he should never allow that man to get near the No. 4 back.

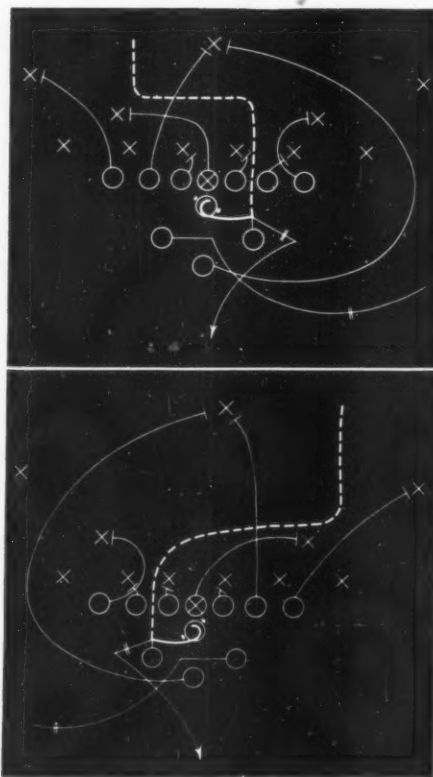
The position of the quarterback's feet is designated by the little dots on the diagram. Many coaches think this is a tipoff as to the direction of the play, so we often vary it with the play. Upon receiving the ball from the center, the quarterback executes a reverse pivot and feeds the ball to the

right halfback. As soon as the ball-carrier is away, the quarterback keeps his hands in close to his stomach while he takes two steps out toward the opponent's goal line. The two little lines indicate a fake pitchout that he makes to the left halfback. After faking very hard to that back, he then fades back and throws a fake pass. All this time he has his back at least partially to the line of scrimmage so the opponent cannot see what is going on. This is absolutely necessary if the ball-carrier is to get through the hole before the play is diagnosed.

The left halfback steps off with his left foot and then cuts on a 90° angle to his right. He sprints over until he is behind the center and then starts to "belly" back. When the quarterback fakes the pitchout, the No. 2 back must fake right with him in order to confuse the enemy. Note the two little lines crossing his path. We spend as much time as possible on good faking.

The right halfback must start like a shot out of a cannon. As the play begins to unfold, he eyes the quarterback with split-vision until he is ready to receive the ball. He then looks down and follows it right into the pocket. We tell our ball-carriers to grasp the ball, seize it, tuck it away, and move it downfield. Once he has the ball in his possession, he bolts through the line for about five yards before cutting to his left, where he picks up his blockers.

Our fullback must "fly" out to the sidelines, keeping a constant watch to see just who, if anyone, follows him. He should do this with an eye toward what play, similar to "43," would work if he were to go out there all alone.



Diag. 2: Against normal six with defensive tackle playing in the gap.

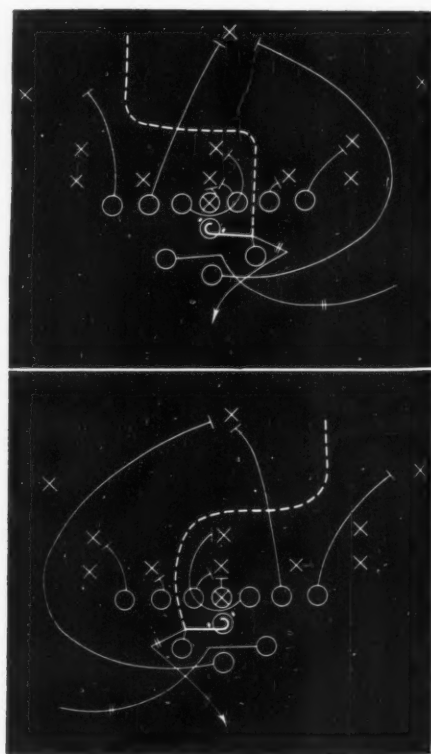
"22" Against a Normal Six-Man Line: The opposite of "43," which is "22," is always taught at the same time. In the diagram for the latter play, you will notice that we use the identical set-up, except that we have the left tackle call the blocking assignments, and it is his duty to sprint through the line to block the onside linebacker.

The quarterback's feet are in exactly the opposite position, and he does a reverse pivot to his right, coming around and feeding his left halfback just about two yards behind the line of scrimmage. It was on this simple "22" that Bob Livingstone shook loose to run 92 yards against U.S.C. at the close of our 1947 season.

Quick-Opener Against a Tightened Six-Man Line: **Diag. 2** outlines the very same play against the same kind of defense, except that it is pulled in a little tighter, which brings the defensive tackle into the slot between our right end and tackle. When the enemy makes this change after our tackle has already called the blocking assignments, all that is necessary for him is to say "X" for exchange, and he and the end exchange assignments without causing the slightest mixup.

Against this defense we have our onside tackle drive the defensive tackle out toward the sidelines and our end come around behind the tackle and meet the linebacker as he is coming in on the play. The reason for having the end pull behind the tackle is to draw the linebacker into the play and make certain that the hole is opened first. The assignments of all the other linemen remain the same.

In running "22" against this defense, there are the same changes as



Diag. 3: Play 43 and 22 as operated against a 5-3-2-1 defensive setup.

in "43" plus one other minor difference. The defensive right guard is now at an angle that would make it much easier for the center to block him than to have the guard do the job. All the center need do is call out his own name, which will send the guard through after the linebacker, and the pivot man can take care of the guard. The remaining players go about their assignments in the same manner as they did in the previous play.

When the man with the ball arrives at the line, he cannot always expect to be able to drive a truck through the hole. It may be small, or it may be off to one side or the other, but he must use it and make the best of it.

Quick-Opener Against the 5-3-2-1: A 5-3-2-1 defense places a man directly on the head of our center, and this man is in the most advantageous position to break up our quick-opening plays. Therefore, we "double team" him, which means we assign both our center and our right guard to insure that he does not stop the ball-carrier's progress.

Diag. 3 shows our quick-opener against this type of defense.

The right end should immediately sprint out to get the onside linebacker. If he moves fast enough, the end should be able to drive the enemy all the way to the sidelines. The angle is fairly good and the defender is far enough away from the hole for our man to work deliberately.

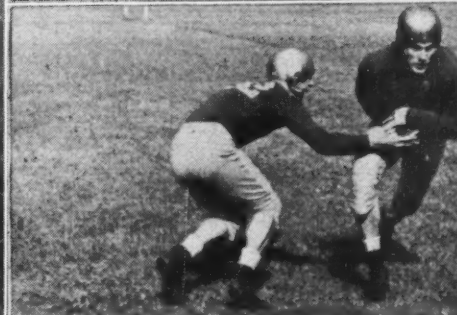
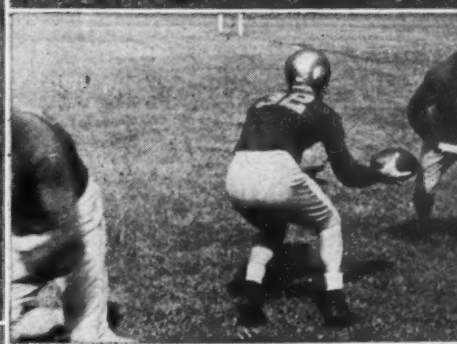
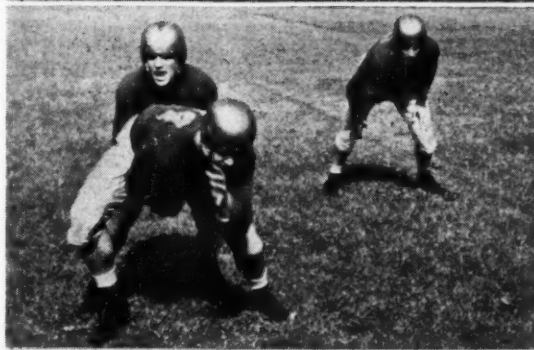
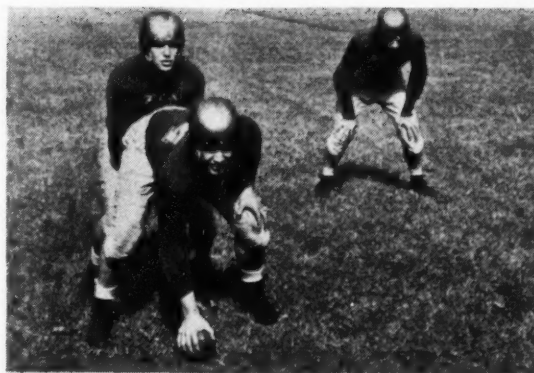
Ask the right tackle to come across the line of scrimmage; that is, step quickly across so that the opposing tackle will stay on his right side. This will make the block much easier and will be away from the hole.

The right guard and center must double team the man playing opposite the center. As soon as one of these men is in position to handle the enemy alone, the other lineman should head on downfield to help out in whatever situation develops.

Our left guard must pull around very fast behind the right guard. He takes short digging steps as he buries his shoulder in the midsection of the center linebacker. We insist that he stick with that man until the play is well on down the gridiron.

The left tackle and left end are asked once again to take care of the downfield blocking assignments. Before they break away, they must make certain that none of the opponents is pulling back to stop the play. All of our downfield blockers are instructed never to pass up a potential tackler. We want the field cleared, and if anyone makes a tackle, we want it to be a man in front of our blockers rather than a man behind them.

All four backs follow exactly the same procedure as against a six-man line. However, we frequently send our left halfback in motion with the hope that the onside linebacker will follow him out, thus allowing our right end



BASIC REVERSE PIVOT ILLUSTRATED BY JOHNNY LUJACK

The reverse is the most important pivot in the Notre Dame system. On the hand-off to the left half (Play 22), the quarterback lines up with his right foot forward. As soon as he receives the ball, he brings it into his stomach, then pivots just as fast as he can. He pushes hard with his right foot and shoulder, spinning around to face the sideline. He completes his pivot with his head up, back straight, and toes on about a 45° angle with the enemy goal line. The ball is held out with the feeding hand underneath so that the halfback can easily take it as he sprints by. The feeding hand gives about six inches with the ball-carrier.

to be an additional downfield blocker. We try to achieve this at every opportunity, because the more blockers we have past the line of scrimmage, the better the chance of obtaining six points.

Hereafter we will not explain the opposites of each play, since they are identical except that it is the corresponding man on the other side of the center who is carrying out the assignment.

"43" Against an Overshifted Six-Man Line: A six-man line that is overshifted to the hole side gives us a chance to use cross-blocking. As shown in **Diag. 4**, such a shift requires the halfback to veer a bit toward the right after he gets through the hole in order to circle the defensive guard.

When a cross-block is called, we ask the tackle to go first because his man, being nearest the hole, is most dangerous. Also, the man to be blocked by our guard will have partially com-

mitted himself, thus making him an easier target.

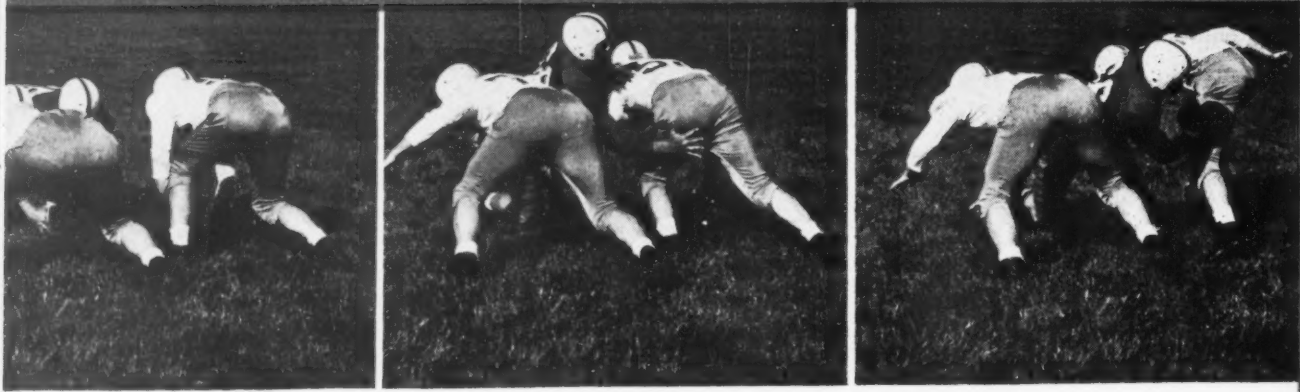
Since changing to the "T" we have found this to be a common defense, especially when the right halfback is the best running back. It is a tough defense to crack, but if your ball-carrier can get through the line and make a fast cut, he will find plenty of assistance once he gets past the linebackers.

The right end is asked to cut over fast and double team with the left guard on the center linebacker. They must drive this man toward the line of scrimmage and out in the direction of the sidelines. He will prove extremely troublesome if they do not get the jump on him. Once he starts retreating, one man can take care of him and the other may release and join in the downfield maneuvers.

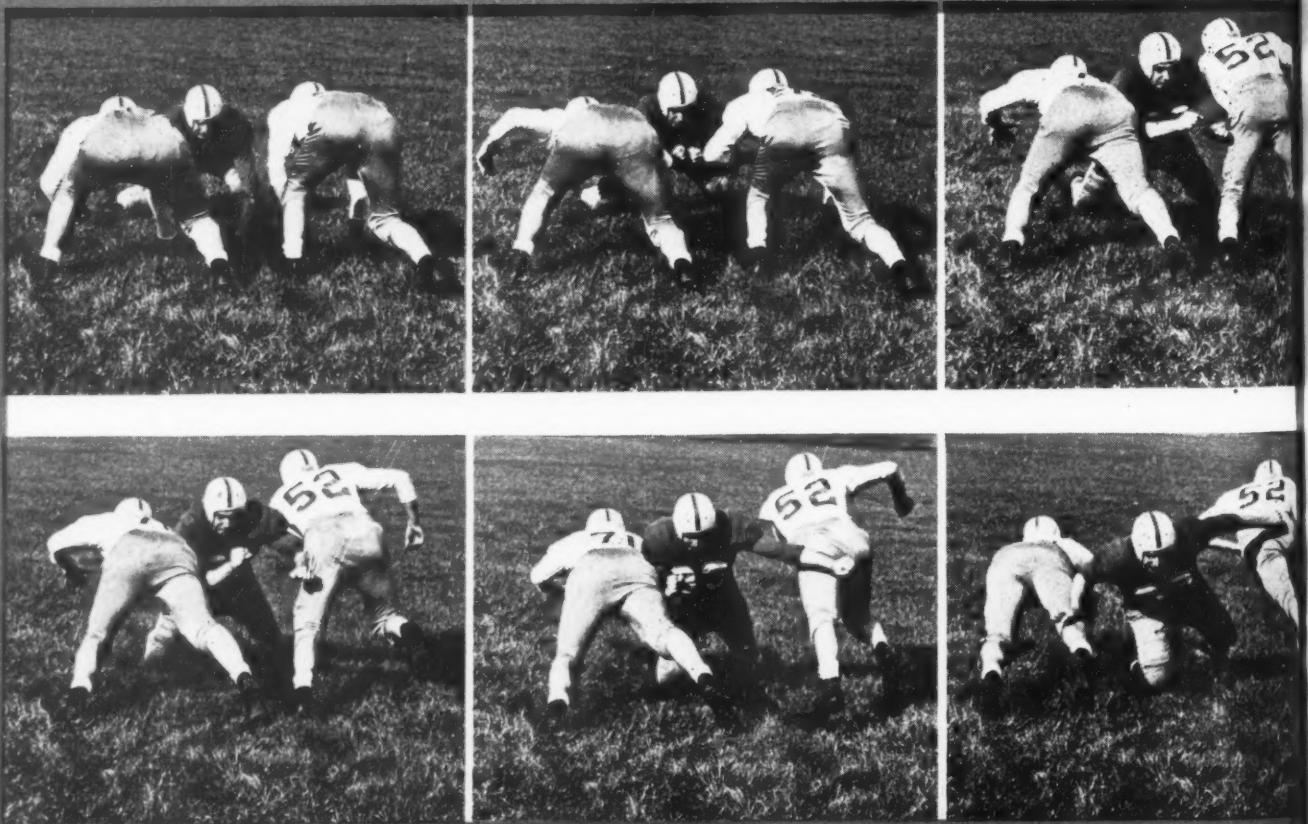
When cross-blocking is called, the right tackle goes first and buries his

(Continued on page 44)

DOUBLE COORDINATION CHARGE



DIP SPLIT CHARGE



EXCLUSIVE **SCOUTING COACH** PHOTOS

M
shift
ing,
dece
Ba
quin
as a
that
chan
carr
Tha
salt
mer
divi
W
right
the
and
T
pen
tact
alig
offe
abi
A
the
sin
slic
don
V
tra
cha
ter
wi
cal
A
me
er.
tin
ing
the
wh
in
is
us
Ar
th
to
ch
J

Defensive Line Stunts

MODERN-DAY defense is a highly volatile, complex proposition, compounded of shifting, looping, converging, slanting, and other ingeniously devised deceptive patterns.

Basically speaking, however, the quintessence of defense remains—as always—good line play. A line that can withstand the offensive charge and get to the passer or ball-carrier is going to do all right. That's why every coach worth his salt will equip his defensive linemen with a good assortment of individual stunts and maneuvers.

When executed properly at the right time, these stunts will enable the linemen to evade the blockers and reach the carrier.

The choice of stunt generally depends on four factors: (1) the tactical situation; (2) the offensive alignment; (3) the ability of the offensive opponent; and (4) the ability of the defensive man.

At Rutgers, for example, we meet the T more "softly" than we do the single wing. We hit and drift more, slide, use more divergence, and don't meet the power as fast.

We do not let our linemen penetrate too deeply on their initial charge. They are instructed to play territory first, then the ball. This will vary, of course, with the tactical situation.

Against the single wing, our linemen usually go in deeper and faster. Their first responsibility is getting across the line; second, playing territory; and, third, going for the ball.

Our linemen are always told where they should be after their initial movement. How to get there is left to their initiative and the use of six or eight defensive stunts. Among the primary skills taught them are submarining, over the top, forearm charging, shiver charging, dip split charging, slic-

ing, and double coordination charging.

Every lineman needs a good springboard for his individual stunts, and at Rutgers we pay considerable attention to stance.

Our stance is a little off the beaten track, as you will notice in the accompanying pictures. We employ a three-point stance in which the rear leg is a little deeper than ordinary. This puts the lineman in a bit more of a sprinter's stance. Inasmuch as this stance permits the fastest possible getaway, it seems good sense to adapt it to line play.

The weight is distributed evenly over the front and rear feet, with a little weight over the grounded hand. The left arm is positioned over the forward knee to better protect the legs, while the head is up, the

back straight, and the hips low. In most cases, the rear foot is brought up in the initial movement.

Following are the basic stunts with which our defensive linemen are equipped. These stunts are illustrated on pages 10, 12, and 13.

Double Coordination. Used by a guard or tackle playing the split. The initial movement is to put one knee on the ground well between the two opponents. The hands are placed on one opponent and the hips and side of the body thrust against the other.

Pressure is applied until the gap is wide enough for the defensive player to twist at the hips and work his way through (as illustrated on the facing page). While twisting at the hips, the player can put one hand on each opponent.

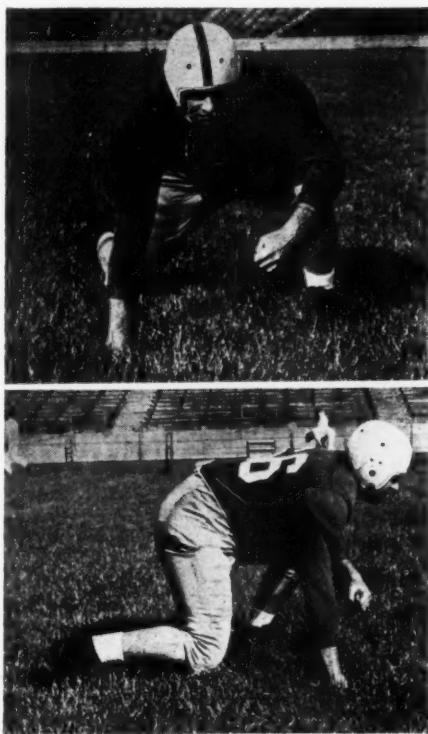
Dip Split Charge. The defensive player drives with head and shoulders at the knees of the offensive men. He shoots both arms through the split and uses his elbows to widen the gap created by his head on the initial charge. He tries to keep his legs under him and moving, while using his hands to fight his way through.

In the pictures (on the opposite page), the player has made his initial drive too high and has not lifted his head quite soon enough after making clearance. The head should always be up as clearance is made.

On this, as in other defensive maneuvers, the lineman must play his territory first (if territorial defense is employed) and the tactical situation second.

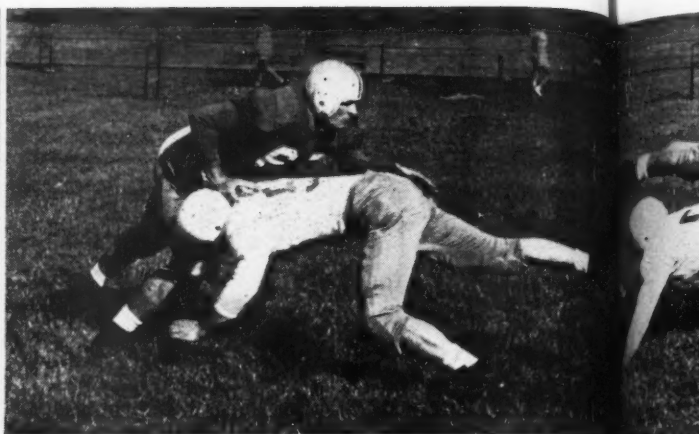
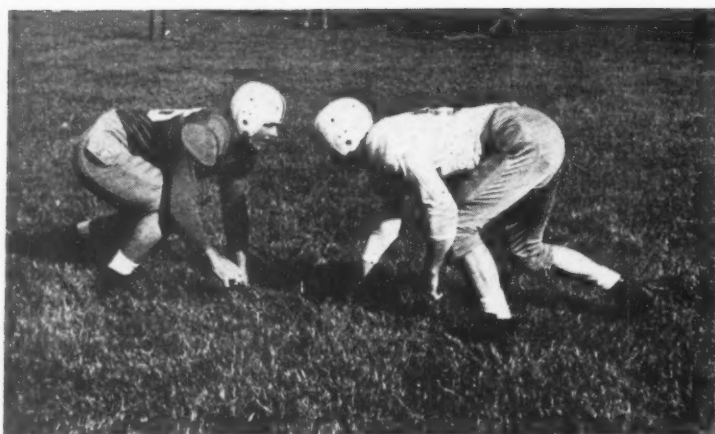
On passing downs, for instance, he plays a little higher, while in short-yardage situations he diverges or converges according to the planned defense.

Limp Leg. Used by either a
(Concluded on page 55)

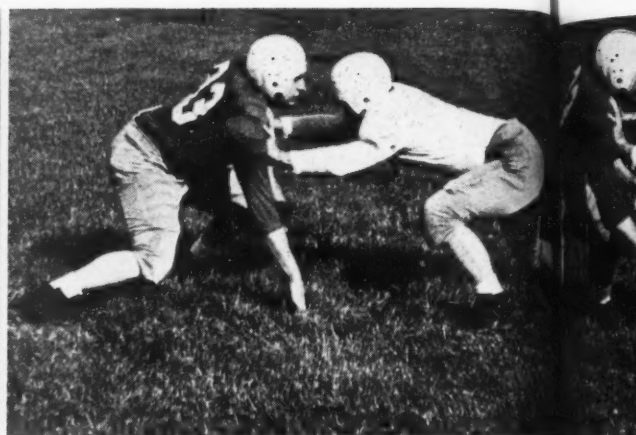
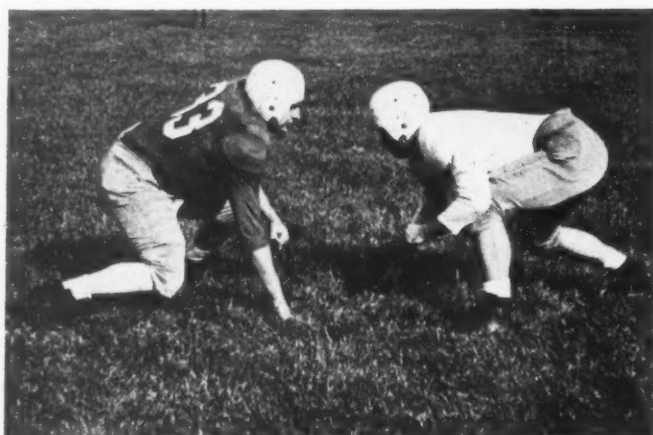


Front and Side View
Basic Defensive Line Stance

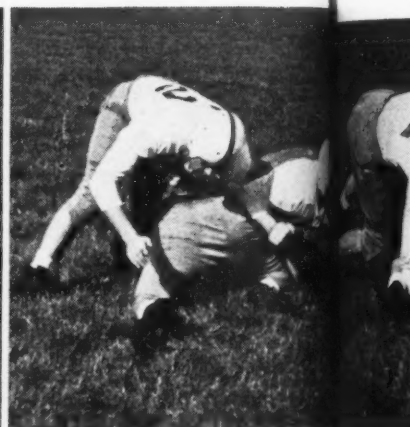
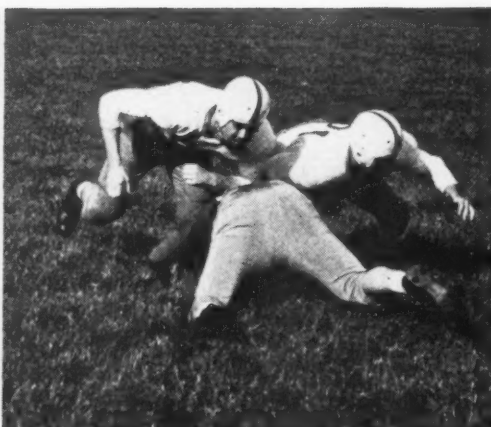
LIMP LEG



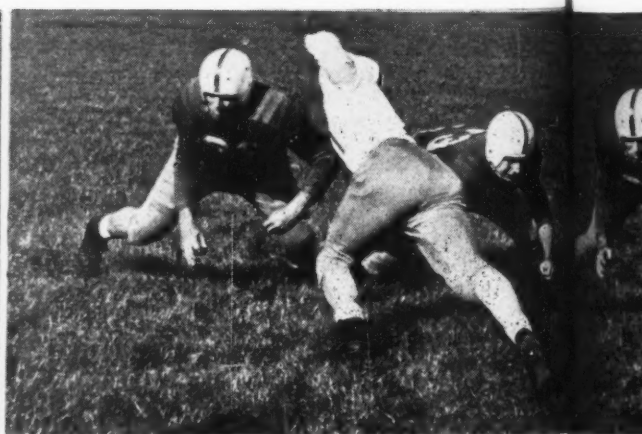
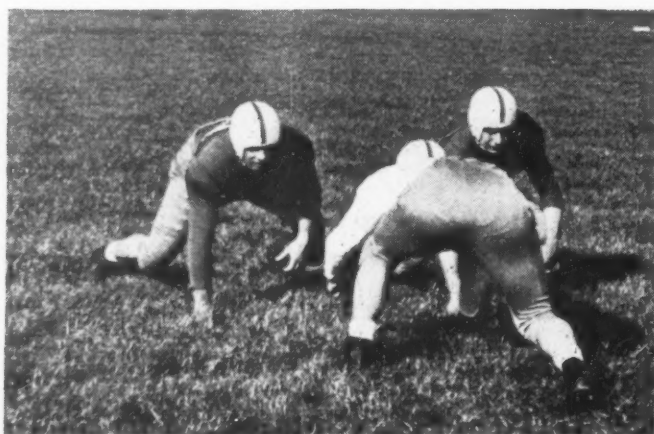
FOREARM SHIVER

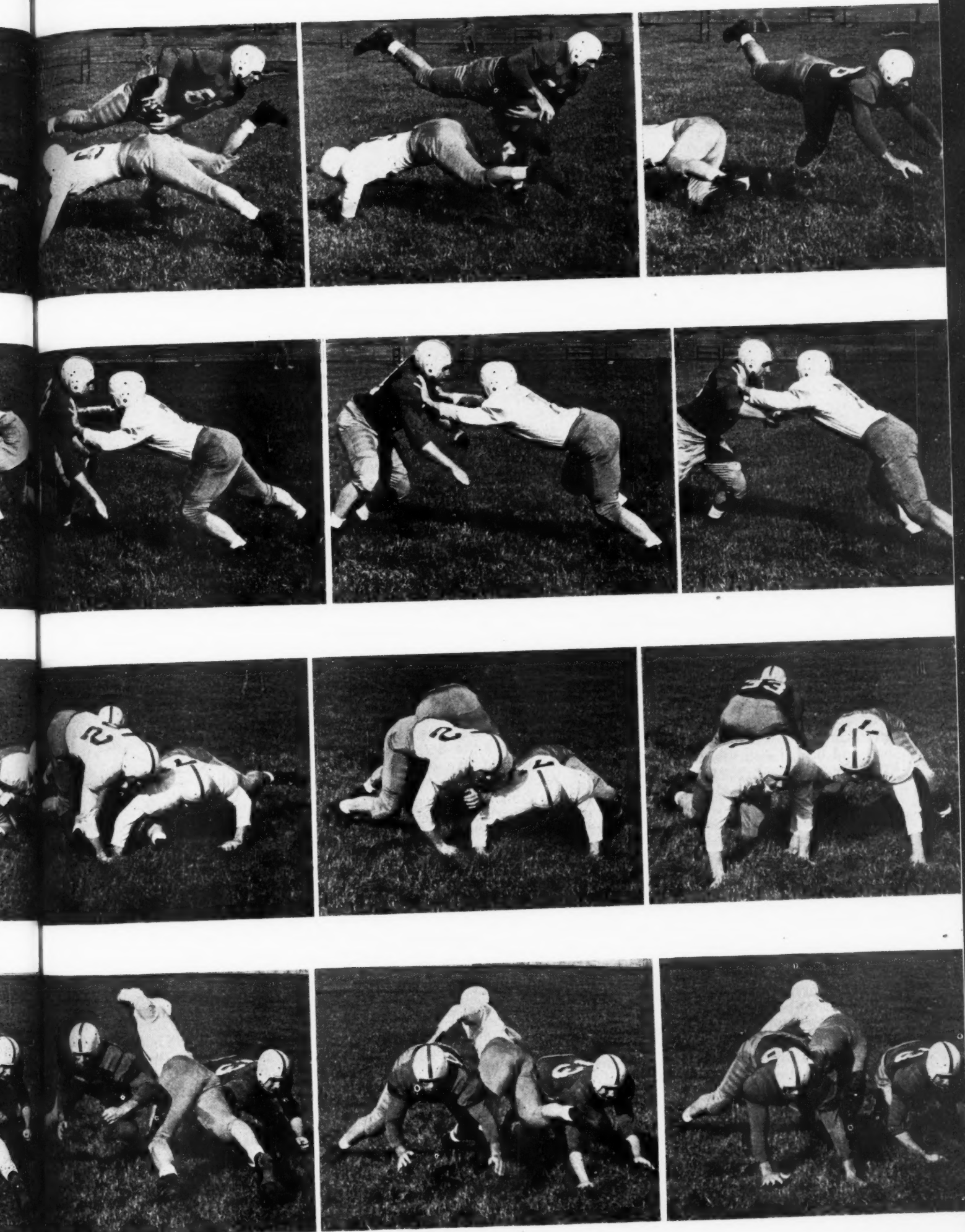


SUBMARINING



SLICE or KNIFE





Outside Attack from the Straight T

EVERY high school coach who employs the T must develop a dependable series of wide-striking "all-of-the-way" plays.

A T-offense which is weak to the outside soon finds its down-the-middle effectiveness impaired, while its passing game—particularly its long-passing possibilities—also suffers by reason of its inability to pressure defensive backs into coming up fast to cover against sweeps.

There is no denying that the wide attack from a plain T presents its difficulties. The absence of a wing-back plus the difficulty of swinging a wave of blockers in front of the ball-carrier without too great a sacrifice of speed, constitute apparent weaknesses—particularly in the high school T.

One way to deal with the problem, of course, is by use of motion, end flankers, backfield flankers, or end and back flanker combinations. This, however, leads to defensive adjustments.

In college and professional ball, a great many maneuvers in the way of counters, reverses, and statue plays can be deftly employed to keep the defense from playing too heavily against the flankered strength. Such tactics, however, demand a complicated repertoire of plays and a degree of poise and judgment not commonly found among high school quarterbacks.

These considerations make it advisable for the coach to place his primary reliance for outside offensive strength on plays which wheel directly out of a straight and unembellished T. He may supplement these as he sees fit with similar maneuvers featuring motion or flankers. But it is wise to make certain that when the need arises, his team can go wide effectively without depending on any anticipated defensive reaction to a posted or motioned flanker.

This, of course, sometimes takes

a bit of doing, and even though a coach may be unusually blessed with speedy backs, it still pays to devote considerable thought to the problems involved.

In designing a wide attack from the straight T, it is well to keep in mind the following principles:

1. The defense must be anchored momentarily by a quick-striking down-the-middle threat.

2. Key blockers must be sprung out in front of the ball-carrier and must be swiftly and effectively directed toward their targets in such manner as to give them effective blocking angles and approaches.

3. Maximum downfield blocking must be afforded.

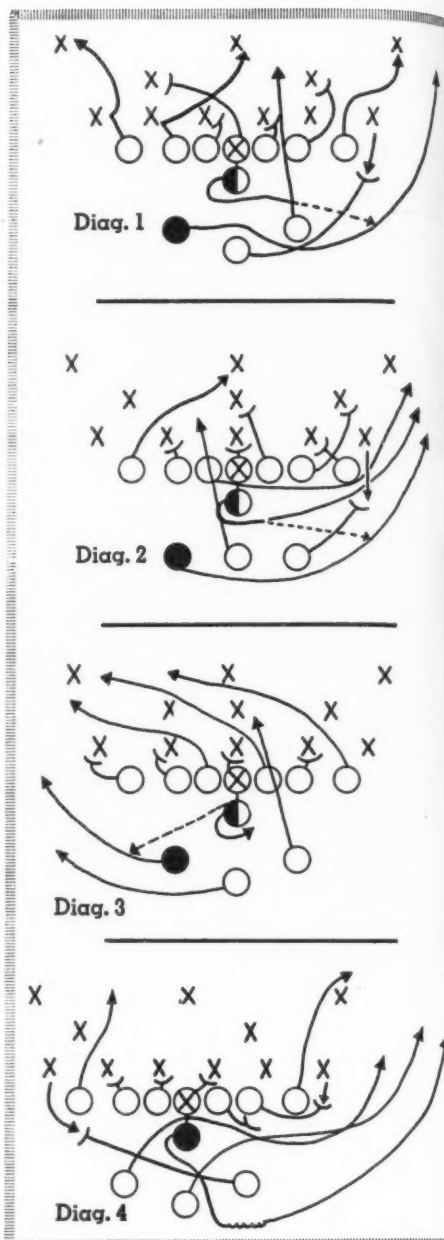
4. All of these things must be accomplished without sacrificing the all-important element of speed.

In short, the wide sweep from the T should round the defensive end and turn upfield like one of those Civil War cavalry charges which made the Confederate General Bedford Forrest's "Get there firstest with the mostest" a classic maxim of offensive operations.

How can it be done? The following are a few of the ways—all of them adaptable to high school play—in which leading college and professional teams are wheeling wide from the straight-T.

Diag. 1 shows a fast-breaking and remarkably effective sweep which develops behind somewhat unorthodox blocking. The offensive end moves out in a hurry and goes downfield for the opposing halfback on his side, the latter being regarded as a key defender.

This maneuver by the end also serves to create the illusion of a developing pass play—especially where the defense has been coached to anticipate an aerial attempt whenever an end comes downfield without first making contact with an opposing lineman.



The tackle is assigned to make a key block on the linebacker, but must take the indicated route around the defensive tackle, thereby momentarily screening him out of the play. It is essential that the offensive tackle take his initial step with his outside foot, get head and shoulders across in front of his opponent's body, and then drive past and around him to the linebacker.

The plunging halfback serves at once to reinforce the screen on the defensive tackle and to hold the linebacker in position for the split-second which will enable the offensive tackle to make his contact.

The quarterback does a fast reverse spin, fakes handing off to the plunging back, then tosses to the other half who is the ball-carrier on the play.

The fullback has the all-important key block on the defensive end, but its execution presents no great

Another winner by **MEDART**

Makers of the World Famous Medart Basketball Scorer and Timer... Over 4000 in Use



Football Scorer and Timer

Here it is...the Medart Football Scorer and Timer...factory tested for hundreds of hours (including outdoor weather tests)...and field tested during the season just past. This means that mechanically and in design the Medart Football Scorer and Timer is "right" from the standpoint of operation and daylight visibility...features that insure accuracy and durability. The Medart Scoreboard is EXTRA large... 20' long and 16½' high. All numeral blocks are 2' high by 13½" wide. Records time in minutes and seconds with time left to play diminishing automatically each second. All steel construction with numeral blocks weather-proofed. Reset mechanism permits setting time from 15 minutes down to any length time desired. The Medart Scorer and Timer is such an improvement over existing ones that seeing it before you make your scoreboard investment is a "MUST"!

Write for Descriptive Literature and Prices

OTHER MEDART PRODUCTS

Basketball Scoreboards
Basketball Backstops
Gymnasium Apparatus
Telescopic Gym Seats
Acromatic-Trampolin
Steel Lockers
Steel Lockerobes

FRED MEDART PRODUCTS, inc.

3535 DEKALB ST....ST. LOUIS 18, MO.

Leaders for over 75 years in the manufacture of school equipment

EX-COACH
FINDS . . .



"LARGER INCOME AND INDEPENDENCE"

"Now I know my decision to make the change from high school principal and coach to Field Underwriter with The Mutual Life was a wise one," says J. Corliss Sikes, recently appointed to the staff of the Director of Training at the Home Office. Here's why Mr. Sikes is sure he made the right move:

"The field of life insurance selling gave me the opportunity to work as my own boss and to build a larger income! I doubled my previous salary the first year. And I have the satisfaction of helping others plan financial security while, at the same time, I am building security for myself and my family."

Like Mr. Sikes and so many other ex-coaches, you might find it worthwhile to consider a sales career with The Mutual Life. Our booklet, "The Career For Me?" includes a preliminary test to help determine your aptitude. If the results of the test prove favorable, our manager nearest you will explain our excellent on-the-job training program and the Mutual Lifetime Compensation Plan — which provides liberal commissions, plus two additional opportunities to earn extra fees, and at 65 a retirement income.

Mail the coupon today.

THE MUTUAL LIFE INSURANCE COMPANY OF NEW YORK

34 Nassau Street New York 5, N. Y.
FIRST IN AMERICA

FOR FREE BOOKLET—"THE CAREER FOR ME?"—
ADDRESS DEPT. 15

Name..... Age.....

Home Address.....

problem where the play is run swiftly and the plunging back makes an effective fake into the line.

Another type of sweep, as outlined in **Diag. 2**, features more conventional blocking, permits quicker blocker contact with the defensive end, and utilizes the power-threat of a driving fullback.

On this play, the quarterback spins and tosses as the fullback roars up into the hole left by the guard's pull-out. The fullback thereby serves the double purpose of assisting the center in protecting the gap, and of anchoring at least one linebacker.

Moreover, this play permits solid and instantaneous blocking on both the defensive end and tackle, while at the same time permitting the running guard and even the quarterback, by virtue of their shorter paths, to get in ahead of the ball-carrier and serve as blockers.

Chief threat to its success would be a sure-tackling defensive halfback who comes up hard and fast to meet it. However, few secondary defenders can consistently employ these tactics without leaving themselves dangerously open to touch-down passes over them whenever they commit themselves too quickly on a wide fake.

Note also the possibilities of counteracting such defensive play by means of the ball-carrier cutting back just outside the defensive end, but inside the up-coming halfback.

Another device is the quick toss shown in **Diag. 3**. This is largely a surprise maneuver whereby a speedy halfback may be run wide around his side of a tightly drawn defense.

The play features quick step-out blocks by the end and tackle, with the quarter whipping the ball out to the ball-carrier with a fast under-hand throw. The fullback who trails the play, is insurance in the event of a fumble or an erratic toss.

During the 1948 season, there was a noticeable tendency on the part of some top-flight T-formation coaches to make greater use of the quarterback as a ball-carrier. This was particularly true with regard to wide plays. One of the most effective means of doing this was the end-sweeping optional-pass-or-run maneuver which is depicted in **Diag. 4**.

It was on this type of play, but sweeping to his own left, that Frankie Albert, southpaw quarterback of the San Francisco Forty-Niners, ran rings around opposing defenses.

The play calls for the quarterback to spin back and fake a quick hand-off to the fullback, then fade back as if to pass. The full and the off-half

AFTER three successful years of head coaching at St. Regis College, Robert C. (Sarge) MacKenzie returned to his alma mater, San Francisco U., as jayvee coach under Clipper Smith. When Ed McKeever moved in as head man in 1946, the Sarge became assistant varsity coach. He coached for one year, then retired from athletics to devote all his time to teaching political science and history. A frequent contributor to various literary and technical publications, MacKenzie still retains a lively interest in football—scouting for the All-America Professional Football Conference.

start up into the line as if on a cross-buck, but veer out into the flat to act as posted blockers or potential short receivers, depending upon the way in which the particular play develops.

The other halfback crosses swiftly behind the fullback and picks up the defensive end on the opposite side.

The line employs a blocking pattern frequently used in protecting the passer. Linemen on the side to which the quarterback intends to swing, keep their feet and balance while establishing contact in such a way as to be able to hook their men in, or at least work them to the inside so that they will take an inner lane in attempting to rush the passer.

It may be necessary for the guard and tackle on that side—particularly the tackle—to pull out and back (as shown in the diagram) in order to come up in good blocking position to meet their respective targets.

Meanwhile, the quarter, after having faded a bit, looks around as if to spot a receiver. Suddenly he dashes for the sidelines and, as he gains the outside of the defensive flank protection, starts to come forward. Advancing at every step and continually threatening to pass as he does, he is in a position to take advantage of the individual reactions of the defenders in the opposing secondary.

If the latter should come up rapidly, the quarter can throw to either of his own ends who must necessarily be left open by the defensive commitment against the threatened run. On the other hand, if the defenders stay back to cover against deep passes, the quarterback may either run or throw short to the full or half who have faked the cross-buck and are now well over in the flat ahead of him.

Quite different, but a play which

Night and day...

THE FOURMOST SOFTBALLS IN ANY LEAGUE!



No. 100NB — Official Night Softball — 12-inch. An exceptionally fine, high quality ball. Heat molded Kapok core and latexed yarn. Selected specially tanned white washable cover for maximum visibility under floodlights, cemented to the ball and double needle stitched with white waxed thread. Complies in every respect with Official specifications.



No. CSK — "Concealed-Stitch" softballs give four to five times longer service than balls sewed in the conventional manner. Made with a heat molded Kapok core and latexed yarn. Selected white cowhide cover cemented to the ball and double needle stitched with white waxed thread. Complies in every respect with the Official specifications.



No. 100 — Official Softball. Same construction as No. 100NB except finished with regulation selected white cowhide cover.



No. 38NB — Official Night Softball — 12-inch. A splendid ball made with a cemented, heat molded Kapok core, wound with latexed yarn. Specially tanned white washable cover for maximum visibility under floodlights, double needle stitched with white waxed thread. Official in size and weight.



MACGREGOR GOLDSMITH, INC.

CINCINNATI • NEW YORK • CHICAGO • LOS ANGELES

for every sport!



Shrink-treated Wigwam Socks



They're **STA-SIZED**
for lasting comfort

Athletics are hard on the feet . . . and on socks. Shrink-treated Wigwam socks are built to provide springy, shock-absorbent comfort for active feet. In addition, they're STA-SIZED* for lasting comfort. That means no binding, bunching, chafing ever! Because they keep their comfort, there's longer wear in every pair. For added sturdiness, heels and toes are nylon-reinforced. Order Shrink-treated Wigwams at leading dealers everywhere.

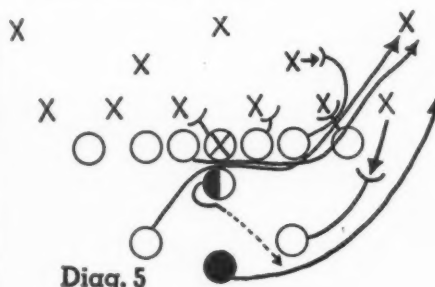


*Hundreds of home wash-and-wear tests show they will not shrink below the knitted size.

HAND KNIT HOSIERY CO.
Sheboygan, Wisconsin

will appeal to those who like strong interference in front of their ball-carriers, is the one in **Diag. 5**.

Note the manner in which the left half drives up past the retreating spin of the quarterback. The left half fakes a drive into the line, veers at the last moment, and follows the guard who has pulled.

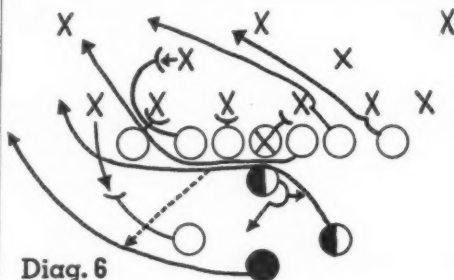


Diag. 5

The left half's initial slant serves to supply the inside threat and at the same time screen off any defensive lineman who might break through the center's block. Then, moving laterally along the scrimmage line in the wake of the guard, he races to get into the interference ahead of the ball-carrier.

A variation of this same play can have the quarter make a fast spin, fake the toss to the fullback, then follow the latter around end. This affords a nice offensive change of pace and permits a fast quarter to utilize a powerful and hard-blocking fullback as a personal interferer.

Another play cut from this pattern—and one which might be preferable when running to the left in cases where the backfield personnel is entirely right-handed and inclined to have difficulty in executing the left-moving version of the maneuver in **Diag. 5**—is the one shown in **Diag. 6**.



Diag. 6

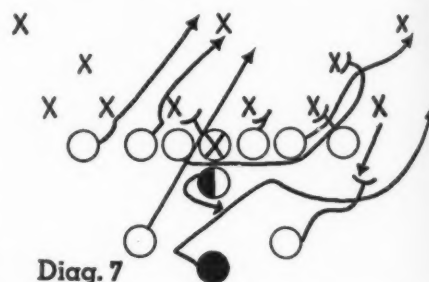
Then, of course, there are the reverses, wide-counters and the slant-and-swing sort of things. A sample of the latter is outlined in **Diag. 7**.

Still another method of striking to the outside is that of building a virtual wall of blockers wide of the defense and then rifling a lateral to a swinging back as he comes in behind the forming screen. This principle, when employed in combination with adept ball-handling and a deceptive double-spin on the part of the quarterback, has proven ex-

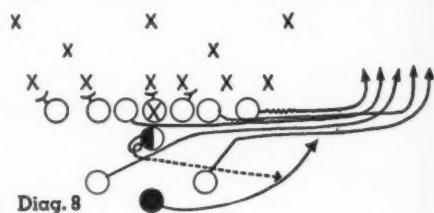
tremely effective. This somewhat unusual maneuver appears in **Diag. 8**.

Note that the defensive end and tackle are screened out for a moment by their opposite numbers on the offensive line. After working through the screening effect provided by the offensive end and tackle, the defenders encounter the guard and the two backs driving wide to form the wall of blockers in the flat. The two most dangerous defensive linemen are effectively kept out of the line of the lateral to the fullback.

The double-spin by the quarterback tends to draw in the defense, thereby setting up the situation for a long run by the back who takes the toss. However, while the defense is drawn in by the spins and fakes, it is prevented from coming in too fast by the screen of backs and linemen who are moving out to form the wall of blockers.



Diag. 7



Diag. 8

Another highly effective means of running a defensive end is that of setting up an inside-outside hit-and-sweep series of plays. It can start with the quarterback tossing a short and fast waist-high lateral to the fullback on a play similar to that shown in **Diag. 5**.

However, there is this difference. The left half starts fast to his right and then cuts in over his own center position. Simultaneously, the quarterback, after tossing, turns back swiftly and fakes a hand-off to the left half as the latter makes his cut. This is not a particularly strong play in itself, but it serves to set the stage for what is to follow.

Next in the sequence comes a fake toss to the fullback with an actual hand-off to the left half (**Diag. 9**).

With the strong outside draw furnished by the faked toss to the fast-moving full, this play can generate real power down the middle.

Some coaches find it advisable to
(Concluded on page 48)

BASICALLY NEW

KOLITE COVER



**SEAMLESS
580
BASKETBALL**

Write or wire for prices
on these KOLITE balls

- ✓ Basketball
- ✓ Football
- ✓ Soccer Ball

WITH THE KOLITE* COVER

To the body of the famous 580 Basketball we have added the remarkable new KOLITE cover that "stays new" longer than leather and will not mark the court.

KOLITE gives you these 4 important advantages—

- (1) Tougher than rubber!
- (2) Looks and feels like fine leather!
- (3) Outwears both!
- (4) 100% waterproof!

"This new basketball has everything" ... "Looks right—feels right—is right" ... Such are the opinions of great coaches and famous players.

Every Seamless Athletic Ball is fabric-stripped for long life and cord-wound to keep perfect shape. Patented all-rubber Kantleek valve and bladder.

TOP quality, priced *right*. Order now!

*Patent Pending.

FINEST QUALITY SINCE 1877



Football Practice Devices

By **EMIL LAMAR**

Berkeley (Calif.) High School

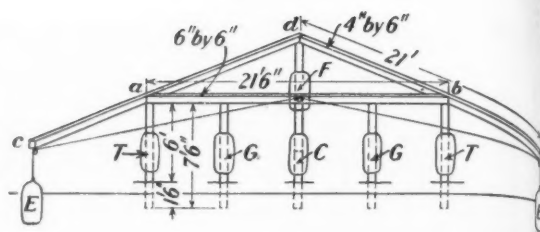
NEARLY every football field possesses some sort of equipment to facilitate the practice of the fundamentals. Most of these devices are professionally manufactured, and do a fine job of conserving manpower and developing technique.

Where the budget permits, the purchase of these professionally manufactured devices is definitely recommended. Many schools, however, do not have the funds to buy such equipment, and it is at these schools that this article is aimed.

The author will attempt to show how scrimmage and charging machines can be constructed in the school shop. This project is met with pride and joy by the shop students, and under proper supervision they can do a satisfactory job.

Glenn "Pop" Warner, the famous

Dummy Scrimmage Machine: A useful device for rehearsing offensive plays; features seven defensive line dummies and a defensive fullback dummy.



old Carlisle Indian and Stanford U. coach, was the inventor of a dummy scrimmage machine similar to the one depicted on this page. This machine serves as a defensive line against which a coach may work his team on offense without danger of injury.

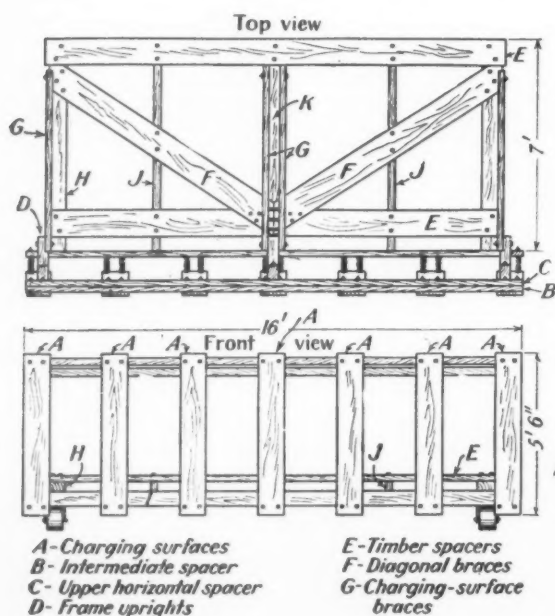
The plays to practice against this machine are those chiefly used inside the opponents' 10-yard line—plays designed for quick touchdowns.

The scrimmage machine possesses five dummies representing the five center linemen, and two suspended dummies representing the right and left ends. The latter suspensions hang over the scrimmage line, since defensive ends are coached to drive across the line the instant the ball is snapped.

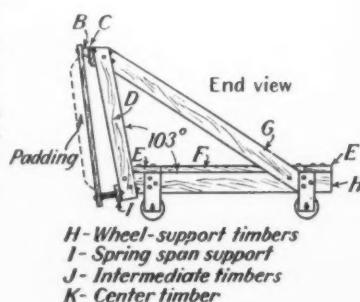
The suspension of the two end dummies also permits the coach to develop vicious cross-blocking in his offensive plays. This was the type of offensive power for which "Pop" Warner's teams were noted.

To construct this dummy scrimmage machine, you will need the following material:

- 6 pieces 6 in. x 6 in. x 7½ ft. for upright timbers.
- 1 piece 6 in. x 6 in. x 21½ ft. for center horizontal timber.
- 2 pieces 4 in. x 6 in. x 21 ft. for side horizontal timbers.
- 2 standard size tackling dummies.
- 6 pieces of canvas 36 in. x 60 in.
- 40 ft. of padding material for old rope mats.



Charging Machine: Develops quickness in charging and affords much-needed development of leg and back muscles. Blocking surfaces have some give, enabling players to hit harder without danger of injuries.



Plan of assembling. Select a good spot about 40 feet square on the athletic field, then draw a straight line upon which to set up the five center posts from tackle to tackle.

Now dig five holes 18 in. deep and 12 in. in diameter. These are for the center posts, which will be sunk equally distant apart.

The center horizontal timber a-b to which the five center upright timbers will be attached, is marked next. It is a good idea to build this horizontal timber of three 2 in. x 6 in. x 21½ ft. planks. This is better suited for simple assembling than a solid piece of timber. Where this is done, spikes may be used to fasten the posts to the center timber.

After the five upright timbers are secured to the horizontal timber, the next step is to hoist the unit into its permanent place. Concrete should be poured around the base of the five uprights and plumbed into place with a spirit level.

The fullback post may next be set up in the same manner. The hole for this post should be dug 18 in. deep and 9 ft. directly in back of the center post. Give the concrete at least 24 hours to harden, after which horizontal beams c-d and d-e may be set up and bolted into place. These beams may be segmented out of 2 in. x 4 in. timbers.

The two ends of the horizontal beams may be rigged with pulleys to support the hanging tackling dummies.

The problem of padding the six upright posts is quite simple. Use old rags or rope mats and circle around the posts. Tie these in place and cover with waterproof canvas.

Paint the machine with a good quality gray or white house paint.

FOOTBALL CHARGING MACHINE

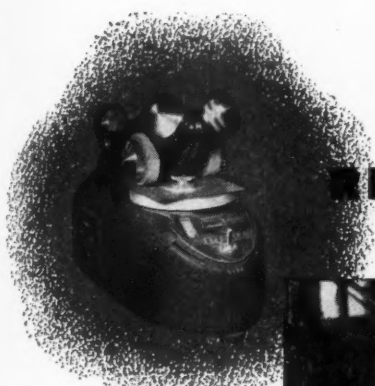
A charging machine is a very useful device for developing a hard, fast-charging line. The heavy-duty machine in the accompanying sketch may easily be built by a manual training class, and is suitable for both high school and college teams. This machine will bear the weight of 11 boys sitting on its timbers while seven boys drive against it with their shoulders.

Selection of materials. Good
(Continued on page 50)

EVERY RUN OF SEAL-O-SAN IS TESTED !

Tested for..

RESISTANCE TO RUBBER MARKING



A tough endurance test is made in our laboratories on every batch of Seal-O-San. Simulating actual conditions, the test proves Seal-O-San will stay clean and beautiful even under hardest wear.



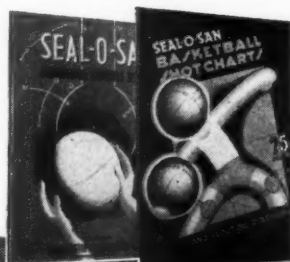
Butler U. Gym, scene of Indiana High School Tourneys, is a Seal-O-San floor

THAT'S WHY

SEAL-O-SAN®

MAKES DAILY MAINTENANCE EASIER

Because Seal-O-San resists rubber burns, daily maintenance is reduced. Dirt and moisture stay on top where they are easy to remove without costly scrubbing. That's because Seal-O-San fills the pores of the wood so the dirt can't get in. Most important of all, for basketball, the surface is slip-proof. Seal-O-San is easy to apply and inexpensive. You'll save enough in maintenance costs alone to pay for it. Try economical Seal-O-San this season . . . write for the facts today!



Coaches Digest

Shot Charts

THERE'S A *New* 1949-50 COACHES DIGEST WAITING FOR YOU

HUNTINGTON LABORATORIES, INC.

Huntington, Indiana



Toronto

Please send ☐ Facts on Seal-O-San, ☐ Basketball Coaches' Digest, ☐ Shot Charts Booklet. Booklets sent free to coaches; all others pay 25c per copy.

NAME

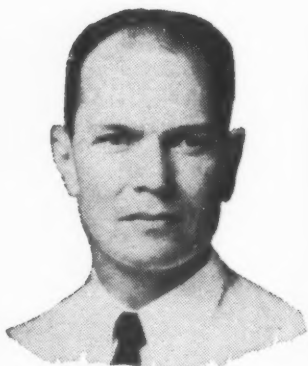
INSTITUTION

ADDRESS

CITY

STATE

LEADING COACHES and ATHLETIC DIRECTORS PRAISE *Marba*



JACK CLAYTON

Football Coach at Western Kentucky State College, Bowling Green, Ky. Says:

"very well pleased . . . best work in 14 years of coaching experience . . . appreciate the fact that you were able to rush order and get our equipment back in time for our spring drills . . . thank you for fine service . . . have more work done in near future"

Protect your athletic equipment investment by having MARBA clean, sanitize and restore it to perfect condition.

Write, wire, or phone for information



Marba Inc.
**RECONDITIONERS
OF ATHLETIC
EQUIPMENT**

Marba Service is Nationwide



425 - 31 NIAGARA STREET
BUFFALO 1, N. Y.
Phone CLEVELAND 0901

NEW EQUIPMENT

As a service to its readers, Scholastic Coach offers this periodic round-up of new sports equipment items. For further information write to: Scholastic Coach, New Equipment Dept., 7 East 12 St., New York 3, N. Y.

• **KOLITE COVER BASKETBALL.** Not leather, not rubber, Kolite is a basically new abrasion-resistant material that is tougher than rubber, looks and feels like fine leather, and will outwear both. Produced by The Seamless Rubber Co., it is 100% waterproof, scuff-proof, and mildew proof, and will not mark the court.



• **HEAVY-DUTY, SEMI-SOFT CLEAT.** The Brooks Shoe Mfg. Co. new cleat is made from a special compound and will outlast the average cleat better than 3 to 1. Will not crack or split and will not come loose in play, thus reducing the possibility of injuries to players.

• **TARGET SCORING GAUGE.** This ingenious instrument, made by Rig Products Co., features a bullet-like pin micrometer mounted in a 1 1/4" unbreakable plastic magnifier. When scoring gauge is inserted in target bullet hole, it reveals most minute contact with ring of higher value. The acme of scoring accuracy.



• **SOFTBALL.** Adopted as the official ball of the American Fast Ball League, the Springfield softball features only the best long-fibred, imported virgin kapok and two windings with the very finest cotton yarns. It also possesses the very best selection of full-grain, kip-leather covers, chrome tanned, double needle stitched with white waxed thread of high quality. Each ball is carefully checked for size and weight tolerance for Fast League play.

LOUISVILLE SLUGGER
HILLERICH & BRADSBY CO.
LOUISVILLE 2, KY.



The Riddell Line

... Unbeaten
for 28 Years



**THE RIDDELL
SUSPENSION HELMET**



**THE RIDDELL
FOOTBALL**



FOOTBALL SHOE



MOLDED BASKETBALL



**LEATHER
BASKETBALL SHOE**



TRACK SHOE



BASEBALL SHOE

• Place your orders through your RIDDELL dealer

RIDDELL

THE HOUSE OF QUALITY AND SERVICE

1259 NORTH WOOD STREET
CHICAGO 22, ILLINOIS

SPORTING GOODS EQUIPMENT FOR HIGH SCHOOL BUYERS

Schools are urged to buy brands advertised in Scholastic Coach. Support of Scholastic Coach by its advertisers merits your support of their products.

WRITE DIRECTLY TO THE COMPANIES FOR THEIR CATALOGUES. ADDRESSES WILL BE FOUND ON PAGE 38. FOR ADDRESSES NOT LISTED WRITE SCHOLASTIC COACH, 7 E. 12th ST., NEW YORK 3, N. Y.

ARCHERY

General Sportcraft Co.
Indian Archery & Toy Co.
Ben Pearson Co.
Powers Mfg. Co. (targets & stands)

ATHLETIC FIELD SUPPLIES

Bleachers and Grandstands

Atlas Portable Bleacher Co.
Horn Bros.
Hussey Mfg. Co.



(Patented)
Portable Steel
Bleachers and Grandstands
Permanent Grandstands - Gym Seats
Easy to put up. Easy to take down.
Safe, durable, economical.
WRITE FOR FREE CATALOG
HUSSEY MFG. CO., INC.
491 R. R. St. • N. Berwick, Maine
Hussey also manufactures "Laughing
Loon" Water Sports Equipment.

Sam W. Ingram & Associates

- NARSPEC
Portable Bleachers
- UTK
Safety Steel Bleachers
- CANNON
Stadiums and Grandstands

For further information write

SAM W. INGRAM & ASSOCIATES
Box 89, Hamilton, N. Y.

Kerrigan Iron Works, Inc.
Bradley M. Layburn Co.

Leavitt Corp.
Fred Medart Products, Inc.
Pittsburgh-Des Moines Steel Co.

PITTSBURGH-DES MOINES Steel-Deck Grandstands



for SAFETY • COMFORT • APPEARANCE!

Unique unit construction meets every need of type and size. Capacity can be increased at any time. Write for consultation and quotations—ask for Grandstand Brochure!

PITTSBURGH-DES MOINES STEEL CO.
3401 Neville Island 911 Tuttle Street
Pittsburgh, Pa. Des Moines, Iowa

J. E. Porter Corp.
United Labs. (stadium repair)



For Lasting Stadium Repair PLASTIC ROCK

Don't delay—it doesn't pay

UNITED LABORATORIES, INC.
16800 Euclid Avenue, Cleveland 12

Universal Bleacher Co. (Portable)

Universal

World's largest manufacturers of Portable and Permanent Bleachers and Grandstands



Cut shows Permanent Steel Grandstand

For safety, stability and satisfaction, always specify Universal. There's a type to suit every need. Portable Wood—Portable and Permanent Steel—Roll-A-Way—Fold-A-Way. Write for complete catalog.

UNIVERSAL BLEACHER CO.
604 SO. NEIL STREET CHAMPAIGN, ILL.

Wayne Iron Works

WAYNE GRANDSTANDS

"Wayne Stands for Safety"
For Catalog  Write!

WAYNE IRON WORKS, WAYNE, PA.

Williams Iron Works

WILLIAMS IRON WORKS, Inc.

442 East 102 St., New York 29

Designers and Manufacturers of
Portable and Permanent Grandstands

Dust Allayer

C. B. Dolge Co. (weed-killer)
Dow Chemical Co.
Gulf Oil Corp.
Pittsburgh Plate Glass Co. (Columbia
Chemical Div.)
Solvay Sales Corp.

Fences

(Wire fences for enclosing athletic fields)
Continental Steel Corp.



CONTINENTAL CHAIN LINK FENCE

Fourteen features insure maximum protection and long life. KONIK steel for rust resistance "clear through."

CONTINENTAL STEEL CORP.
Kokomo, Indiana

National Sports Equipment Co. (canvas enclosures)
Stewart Iron Works
Taylor Mfg. Co. (canvas enclosures)
Wayne Iron Works
Wickwire Spencer Steel Co.
Williams Iron Works

Megaphones

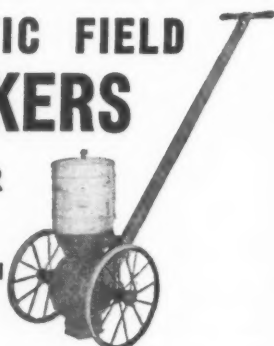
Taybern Equipment Co. (portable electric)

Markers
Allison Mfg. Co.

ATHLETIC FIELD MARKERS

WET OR
DRY

A Guaranteed
Product



ALLISON MFG. CO.
DECORAH, IOWA

H. & R. Mfg. Co.

H. & R. DRY MARKERS THREE MODELS

- Force Feed—Quick Shut-off—Large Capacity
- Easy to fill and operate
- No Brushes or Screens

ACCLAIMED AT THE
N.C.A.A.

AT
SAN
FRANCISCO,
CALIF.

JAN. 7-8, '49

H. & R. MFG. CO., LOS ANGELES 34, CALIF.



Indian Archery & Toy Corp.

COACHES—NOTE

America's No. 1 Line of Linesmen Chains, Sideline Markers, Goal Flags. Colorful for day games. Luminous for night games.

No Concrete Footings to Install

Also Dry Court Markers. All merchandise guaranteed to stand up and give service.

INDIAN ARCHERY AND TOY CORP.
EVANSVILLE, IND.

Established over 22 years

H. J. Otto Mfg. Co.

Floodlighting Equipment

American Playground Device Co.
Benjamin Electric Co.
Crouse-Hinds Co.
Frederick Lighting & Mfg. Co.
General Electric Co.
Revere Electric Co. (floodlights and poles)
Union Metal (poles)
Westinghouse Electric Corp.

Seat Cushions

Majestic Service

Revere
ELECTRIC MFG. CO. CHICAGO, ILL.

FLOODLIGHTS AND POLES

for every
SPORTS
LIGHTING
NEED

Write for
Catalog
Showing
Standard
"NEMA"
PLANS

No. 4200
SERIES
FLOOD
WEATHER-PROOF
500-750-1000 WATT

REVERE ELECTRIC MFG. CO.
6019 BROADWAY, CHICAGO 40, ILLINOIS

Sound Amplifying Systems

Montgomery Ward & Co.
RCA Manufacturing Co., Inc.
Taybern Equipment Co.
Westinghouse Electric Corp.

Athletic Instructional Film

(For sale or hire)

Association Films
Avis Films
Bell & Howell
Coronet Instructional Films
Encyclopaedia Britannica Films, Inc.
Gallagher Films (football)

T Formation 16MM SOUND FILMS

Best T plays of Chicago Bears, Rams and Cardinals, starring Luckman, Waterfield and Christman.

Each play diagrammed and explained—then run in actual game against Green Bay Packers.

2 REELS—OPEN T and BASIC T

Black & white.....\$45.00 per reel
Color.....85.00 per reel
Color film rental.....12.50 per set

GALLAGHER FILMS

113 S. Washington St., Green Bay, Wisconsin

Walter O. Gutlohn, Inc.
Official Films, Inc.
Sports Visual Education Enterprises
(baseball)
Richard V. Thiriot (track films)
United World Films

Slide Film Projectors

Magnavox Co. (sound projector)

ATHLETIC SUPPORTERS

Bike Web Mfg. Co.



Champion Knitwear Co.
John B. Flaherty Co., Inc.

The Greene Co.
Harmol Mfg. Co.
Johnson & Johnson

V-FRONT SUPPORTERS

For All Sports

Johnson & Johnson

NEW BRUNSWICK, N. J.

CHICAGO, ILL.

Ken-Wel Sporting Goods Co., Inc.
MacGregor-Goldsmith, Inc.
William Matthews
O-C Manufacturing Co.

When You Order Athletic Supporters specify

OLYMPIC CHAMPION
APEX

"The Balanced Action Supporter"

Also ANKLE BRACES • KNEE GUARDS
PROTECTIVE CUPS
KNEE AND ELBOW CAPS

Write for information

*Trademarks Reg.

THE O-C MANUFACTURING CO.

Since 1908

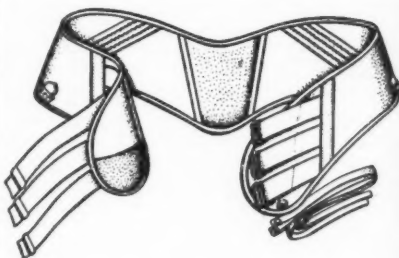
LITTLE FALLS



NEW JERSEY

Professional Appliance Co.

PRO-BELT for Sacro-Iliac Support



• Scientifically designed to relieve the pelvis from shock and strain in vigorous sport activity. Order through your Sports Dealer or write

PROFESSIONAL APPLIANCE CO.

1139 E. Knapp St., Milwaukee 2, Wis.

Rawlings Mfg. Co.
A. G. Spalding & Bros.
Wilson Sporting Goods Co.

BALLS

(See complete equipment headings under
baseball, basketball, football)

Bladders

(For all inflated balls)

Cullum & Boren Co.
Dewey & Almy Chemical Co.
Ken-Wel Sporting Goods Co., Inc.
MacGregor-Goldsmith, Inc.
Rawlings Mfg. Co.

John T. Riddell, Inc.
Seamless Rubber Co.
A. G. Spalding & Bros.
Sun Rubber Co.
W. J. Voit Rubber Corp.
Wilson Sporting Goods Co.

Rubber Fabric Composition Balls
(Footballs, basketballs, playground balls)

MacGregor-Goldsmith, Inc.
Pennsylvania Athletic Goods Co.
Rawlings Mfg. Co.
Seamless Rubber Co.
W. J. Voit Rubber Corp.



Wilson Sporting Goods Co.
Wintark, Inc.

BADMINTON

Complete Equipment
(Birds, nets, rackets)

Cortland Line Co., Inc.
General Sportcraft Co.

R · S · L SHUTTLECOCKS

THE LARGEST MAKERS OF QUALITY
SHUTTLECOCKS IN THE WORLD
Used in Most World's Tournaments

Badminton • Tennis Rackets
Shuffleboard • Deck Tennis
Soccer • Field Hockey

Sole Distributors

GENERAL SPORTCRAFT CO., Ltd.
215 4th Ave. New York 3, N. Y.

E. P. Juneman Corp. (strings)
Ken-Wel Sporting Goods Co., Inc.
The Linen Thread Co., Inc. (nets)

GOLD MEDAL NETS for Badminton

For outdoor and indoor play, in 18, 20, 21-foot lengths. Depth—2½ feet (official). Brown, tape bound, and with patented looped ends.

The LINEN THREAD CO., Inc.

418 Grand Street Paterson 1, N. J.

MacGregor-Goldsmith, Inc.
Fred Medart Products, Inc. (standards)
Oregon Worsted Co. (flying fleece birds)

FLYING FLEECE for INDOOR PLAY

Badminton No. 1 Open Fleece
General Play No. 3 Open Fleece
General Play No. 5 Leather Covered Fleece
Apply to your Dealer or to

OREGON WORSTED COMPANY

8300 S. E. McLoughlin Boulevard, Portland 2, Ore.

WRITE DIRECTLY TO THE COMPANIES
FOR THEIR CATALOGUES. ADDRESSES
WILL BE FOUND ON PAGE 38. FOR AD-
DRESSES NOT LISTED WRITE SCHOLASTIC
COACH, 7 E. 12th ST., NEW YORK 3, N. Y.

Pennsylvania Athletic Goods Co. (birds)
J. E. Porter Corp. (posts, nets)
Rawlings Mfg. Co.
A. G. Spalding & Bros.
Walkay Co.

BADMINTON PRACTICE BIRDS
No feathers to break
PRACTICE GOLF BALLS
Knit or Wool
PRACTICE WOOL TENNIS BALLS
WALKAY COMPANY
1171 E. Ferry Street, Buffalo 11, N. Y.

Wilson Sporting Goods Co.

BASEBALL

Complete Equipment

(Balls, bats, bases, uniforms, gloves, caps, shoes,
bags, scorebooks, masks, protectors,
shin guards)

Amco Athletic Apparel Equip. Co. (uniforms)
Central Mfg. Co. (caps)
C. R. Daniels, Inc.
Martin Dennis Co. (glove softener)
Gilman Sptg. Gds. Co. (chest protectors)
J. H. Grady Mfg. Co. (baseballs and softballs)
Hodgman Rubber Co. (warmup jackets)
Inwood Sptg. Gds. Co. (uniforms)
Kaye Sportswair (uniforms)
Ken-Wel Sporting Goods Co., Inc.
Lannom Mfg. Co. (softballs, baseballs, playground balls)
MacGregor-Goldsmith, Inc.
Major League Suppliers (uniforms)
E. O. Meacham Co. (gloves, balls)
Nocona Leather Goods Co.
Ohio-Kentucky Mfg. Co.
Oliver Bros.
Passon's Sport Center
Pennsylvania Athletic Goods Co. (softballs)
J. E. Porter Corp. (backstops)
Powers Mfg. Co. (uniforms)
Rawlings Mfg. Co.
Red Fox Mfg. Co. (uniforms)
Harold F. Sergel
A. G. Spalding & Bros. (except uniforms)
Sporting Goods, Inc. (baseballs and softballs)
Starr Sporting Goods Co.
Alex Taylor
W. J. Voit Rubber Corp. (softballs)
Wilson Sporting Goods Co.
Wilton Mfg. Co. (uniforms)

Backstops

American Playground Device Co.
The Carron Net Co.
Continental Steel Corp.
The Linen Thread Co., Inc. (backstop netting)
General Playground Equipment, Inc.
Stewart Iron Works
Wayne Iron Works

Bases

Arrow System
Cullum & Boren Co.
C. R. Daniels, Inc.
E. O. Meacham Co.
National Sports Equipment Co.
Petersen & Co.

Bats

(Baseball and Softball)

Hanna Mfg. Co.

BASEBALL SOFTBALL



Hanna Manufacturing Company
Athens, Georgia

Hillerich & Bradsby Co.
Joseph G. Kren

KREN'S SPECIAL

Baseball Bats

The selection for the past
Fifty Years by the
Particular College
and School Players
and their Coaches

Joseph G. Kren
Syracuse 8, N. Y.

McLaughlin-Millard, Inc.

BASEBALL BATS SOFTBALL

McLAUGHLIN-MILLARD, INC.

NORTHERN

ADIRONDACK

WHITE ASH

DOLGEVILLE • NEW YORK

E. O. Meacham Co.
Southwest Mfg. Co.

Home Plates

Cullum & Boren Co.
C. R. Daniels, Inc.
National Sports Equipment Co.
Seamless Rubber Co. (also pitcher's plates)
W. J. Voit Rubber Corp.

Shoes

(See special listing under Shoes)

BASKETBALL

Complete Equipment

(Balls, uniforms, warm-up suits, shoes, goals, scorebooks)

Amco Athletic Apparel Equip. Co.
(uniforms)
Athletic Trainers Supply Co.
Horn Bros. Co.
Arthur Kahn Co., Inc. (uniform cloth)
Ken-Wel Sporting Goods Co., Inc.
MacGregor-Goldsmith, Inc.
Matt L. McBride (basketball rack)
E. O. Meacham (leather nets, knee pads)
Mitchell's



**The famous
complete
SPORTS
SUPPLIERS**

PREPAID SHIPPING—ALL POINTS
DEPT. B. M.— HOBART, INDIANA

Ohio-Kentucky Mfg. Co.
National Sports Equipment Co. (safety wall pads)
Passon's Sport Center
Rawlings Mfg. Co.
Safe-Play Goggle Co. (shatterproof glasses)
Harold F. Sergel
Smith & Waite (knee braces)
Starr Sporting Goods Co.
Alex Taylor
Wilson Sporting Goods Co.

Backstops

Everwear Mfg. Co.
Fred Medart Products, Inc.
Bradley M. Layburn Co.
Nonpareil Mfg. Co.
Nurre Companies, Inc. (glass banks)

NURRE plate glass BANKS

SEND FOR CIRCULAR

The Nurre Companies, Bloomington, Indiana

J. E. Porter Corp.
Recreation Equipment Co.
Schutt Mfg. Co.

Balls

Denkert Incorporated
Nocona Leather Gds. Co.
Pennsylvania Athletic Goods Co.
John T. Riddell, Inc.
A. G. Spalding & Bros.
Seamless Rubber Co.
Sun Rubber Co.
W. J. Voit Rubber Corp.
Wintark, Inc.

Goals

The Carron Net Co.
Everwear Mfg. Co.
The Linen Thread Co., Inc. (nets)
Fred Medart Products, Inc.
Nonpareil Mfg. Co.
J. E. Porter Corp.
Recreation Equipment Co.

Schutt Mfg. Co.

RIGIBILT BASKETBALL GOALS

SCHUTT MFG. CO.

LITCHFIELD

ILLINOIS

A. G. Spalding & Bros.
Stewart Iron Works
Weber Mfg. Co. (portobasket)

Scoreboards

(Electric)

M. D. Brown Co.
Cedar Kraft Co.

Electric Basketball Scoreboards

Immediate Delivery Now
Only \$132.50 less Cable—
No Moving Parts—Guaranteed
In Use All over U. S.

Write for free information
CEDAR KRAFT COMPANY
Grand Haven, Michigan

Cincinnati Clock & Instrument Co.
The Fair Play Co.
Bradley M. Layburn Co.
Fred Medart Products, Inc.
Naden & Sons Electric Scoreboard Co.

NADEN & SONS

Electric Scoreboard Co.
MANUFACTURERS OF

FOOTBALL AND BASKETBALL
SCOREBOARDS AND TIMERS

1434 Second Street P. O. Box 141
WEBSTER CITY, IOWA

Neveco Scoreboard Co.
J. E. Porter Corp.
Shadowgraf Mfg. Co.

Shoes

(See special listing under Shoes)

Uniforms

Butwin Sportswear (warm-up suits)
Champion Knitwear Co.
Cullum & Boren Co.
The Greene Co.
Arthur Kahn Co., Inc.
King Sportswear Co.
Oliver Bros.
O'Shea Knitting Mills
Powers Mfg. Co.
Red Fox Mfg. Co.
Sand Knitting Mills Co.
Trojan Athletic Wear Co.
Wilton Mfg. Co.

BOOK PUBLISHERS

A. S. Barnes & Co.
Charles W. Bachman
Willis N. Bugbee Co.
John T. Core
Everett S. Dean
E. P. Dutton & Co., Inc.
Excelsior Basketball Scorebook

J. M. Hartley (football scorebooks)
Wesley Lauritsen (athletic schedule book)
McGraw-Hill Book Co.
C. V. Mosby Co.

PHYSICAL EDUCATION TEXTS

★ FOR FALL CLASSES ★

EDUCATION THROUGH PHYSICAL ACTIVITIES, by
Patric Ruth O'Keefe, Ph.D. and Helen Fahey,
A.M. 309 pages, illustrated. PRICE, \$4.00

The Organization and Administration of IN-
TRAMURAL SPORTS, by Louis E. Means. 460
pages, 210 illustrations. PRICE, \$5.75

GOLF MANUAL FOR TEACHERS, by Betty Hicks
and Ellen J. Griffin, B.S., M.A. (In Preparation)

THE C. V. MOSBY COMPANY

Scientific Publications

★ ★ ★ ST. LOUIS 3, MO. ★ ★ ★

Carl H. Olson (track & field scorecards)
W. H. Payne
Prentice-Hall
Robert W. Pritchard (football scouting
book)
Program House (program covers)
G. P. Putnam
W. B. Saunders Co.
Sayger Sports Syndicate
Schoolboy Sports (100 winning football
plays)
Stephen-Paul
Stipes Publishing Co.
Walker-Rackliff Co.
Wells Publishing Co. (scorebooks)
Yorke-Marion

Rules Books

A. S. Barnes & Co.
Credwson & Custer

CLEANERS, CONDITIONERS

Arrow System (equipment repair)

ARROW SYSTEM

LAWRENCE, MASS.

Cleansing and Reconditioning
of Athletic Equipment

50 YEARS OF RESPONSIBILITY

Bell Mat Reconditioning Co., Inc. (gym
mats)
E. J. Clarke (Inflated Goods Repaired)
Vincent D'Attilo

INFLATED GOODS REPAIRED

Factory System

D'ATILLO SYSTEM

Reconditioners of all athletic equipment

8 S. 5th STREET, PHILADELPHIA 6, PA.

Send for Our Price List

The Hillyard Sales Companies
Huntington Laboratories, Inc.
Ivory System
Mages Sports Distr., Inc. (inflated goods
repaired)
Marba, Inc.
Olympic, Inc.
Passon's Sport Center (equipment repair)
Petersen & Co. (gym mats)
R & H Service Co.
Raleigh Co.
The Sa-Ven System
Wilson Sporting Goods Co.

FIRST and FOREMOST

in all things connected with
the Reconditioning of
Athletic Equipment.

IVORY SYSTEM

PEABODY MASSACHUSETTS

Dryers

Hamilton Mfg. Co. (for clothes, uniforms,
equipment)

**FAST
ECONOMICAL
EFFICIENT**

Hamilton
AUTOMATIC
Clothes Dryer

Dries clothes marvelously soft . . .
fluffy, wrinkle-free, sweet-smelling.

Hamilton Mfg. Co., Two Rivers, Wis.

CLOTH

(For Uniform Items)

Dexter Woolen Co. (baseball flannel)
Arthur Kahn Co., Inc. (Kahnfast satins)
William Skinner & Sons

EMBLEMS & TROPHIES

All-American Trophies
Arlen Trophy Co.



**PERSONALIZED SPORT
"OSCARS"**
for Individual Awards

Finished in gold, silver
and bronze. Av. height 6".
3 line gold inscribed name-
plate. Samples sent for
inspection.

Send for literature

REGAL AWARDS CO.
1265 BROADWAY, NEW YORK, N. Y.

Award Incentives, Inc.
Butwin Sportswear Co.
Champion Knitwear Co.
Cullum & Boren Co.
Eagle Metalart Co.

EAGLE METALART CO.

**TROPHIES
MEDALS
CUPS**

PLAQUES
EMBLEM JEWELRY

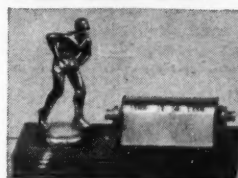
298 BROADWAY
NEW YORK 7, N. Y.

"38 Years Of Service"

WRITE DIRECTLY TO THE COMPANIES
FOR THEIR CATALOGUES. ADDRESSES
WILL BE FOUND ON PAGE 38. FOR AD-
DRESSES NOT LISTED WRITE SCHOLASTIC
COACH, 7 E. 12th ST., NEW YORK 3, N. Y.

Felco Athletic Wear Co.
The Greene Co.
Edwin W. Lane Co.

IDEAL Individual Award for



- High Scorer
- Most Valuable
- Team Captain
- Sportsmanship
- Free Throw Champion

Perpetual Calendar with any athletic Sun-Ray figure on
beautiful walnut base. 5 1/2" high. Suitable engraving space.
G-2144 Ea. (no tax) \$6.75. Send for our New 1949 Medal
and Trophy Catalog.

EDWIN W. LANE CO., Dept. SC
32 W. Randolph St. Chicago 1, Ill.

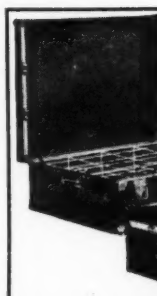
The House of Harter (track award rib-
bons)
Richard M. Johnson Co.
MacGregor-Goldsmith, Inc.
The Nixon Co.
Rawlings Mfg. Co.
Regalia Mfg. Co.
A. G. Spalding & Bros.
Wilson Sporting Goods Co.

FOOTBALL

Complete Equipment

(Balls, headgear, jerseys, pants, shoes,
shoulder pads, etc.)

Amco Athletic Apparel Equip. Co.
(uniforms)
Butwin Sportswear (football parkas)
Champion Knitwear Co. (uniforms)
Contact Lens Specialists (contact lens)
Continental-Vogue Co. (equipment trunks)



• This multi-purpose trunk
is large enough to hold 12
helmets yet small enough
to easily move by car,
train, or plane. Measures
36 x 30 x 12 and comes
in school colors.

MULTI-PURPOSE HELMET TRUNK
Continental Trunk Co.
585 Howard Street, San Francisco, Calif.

C. R. Daniels, Inc.
Greene Co.
Hodgman Rubber Co. (Sideline Parkas
and Capes)
Ivory System (laces)
Arthur Kahn Co., Inc. (uniform cloth)
Kemp Mfg. Co. (snuggies)
Ken-Wel Sporting Goods Co., Inc.
King Sportswear Co. (uniforms, shoulder,
hip and kidney pads)
MacGregor-Goldsmith, Inc.
Mitchell's
Nocona Leather Gds. Co. (shoulder pads,
helmets)

HODGMAN ATHLETIC CLOTHING

Used and Endorsed by
Leading Teams and Athletes

SEE OUR ADV. PAGE 47

HODGMAN RUBBER CO.

FRAMINGHAM, MASSACHUSETTS

New York Chicago San Francisco



The famous
complete
SPORTS
SUPPLIERS

PREPAID SHIPPING—ALL POINTS

DEPT. B. M.—HOBART, INDIANA

C. B. Norvell Awning Co. (dugout for
players)
Ohio-Kentucky Mfg. Co.
Oliver Bros. (uniforms)
O'Shea Knitting Mills (uniform, shoulder,
hip and kidney pads)
Passon's Sport Center
Petersen & Co. (duffle bags)
J. E. Porter Corp. (metal goal posts)
Powers Mfg. Co. (uniforms)
Rawlings Mfg. Co.

RAWLINGS ATHLETIC EQUIPMENT

First Choice for

FOOTBALL • BASKETBALL
BASEBALL • GYM

Red Fox Mfg. Co. (uniforms)
Safe-Play Goggle Co. (shatterproof glasses)

SPORTS GOGGLES

FOR

FOOTBALL • BASKETBALL • BASEBALL • ALL SPORTS

Built with corrected non-shatterable lenses

13 YEARS SERVICE TO SCHOOLS EVERYWHERE

SAFE PLAY GOGGLE COMPANY

5401 WILSHIRE BLVD., LOS ANGELES 36, CALIF.

Sand Knitting Mills Co. (uniforms)
Schall's Down Indicator
Harold F. Sergel

NOCONA—Football and Basket-
ball Equipment

SAND KNITTING MILLS CO.
Exclusive Knit Goods and Clothing
for Athletic Wear

ATLAS Gym Mats
Football Dummies—Bases

HAROLD F. SERGEL

Manufacturers' Representative

16 Murray Street, Mt. Morris, N. Y.

Smith & Waite (knee braces)
Solin Sporting Goods Co.
A. G. Spalding & Bros.
Starr Sporting Goods
Alex Taylor
Wilson Sporting Goods Co.
Wilton Mfg. Co. (jerseys)

WILTON
HONEYCOMB KNIT
Tops in "T" shirts
WILTON MFG. CO., PHILADELPHIA 7, PA.

Wolber Duplicating & Supply Co. (duplicating machine for diagrams)

Balls

Nocona Leather Goods Co.
Ohio-Kentucky Mfg. Co.
Pennsylvania Athletic Goods Co.
John T. Riddell, Inc.
Seamless Rubber Co.
A. G. Spalding & Bros.
Sun Rubber Co.
W. J. Voit Rubber Corp.
Wintark, Inc.

Cleats for Shoes

Brooks Shoe Mfg. Co.
Starr Sporting Goods Co.
Taylor Mfg. Co.

Dummies and Machines

Arrow System
Atlas Athletic Equipment Co.
C. R. Daniels, Inc.
Gilman Sptg. Gds. Co. (field equipment)

MARTY GILMAN'S Patented
Football Field Equipment
Develops Special Skills
Prevents Practice Injuries
BLOCKING ARMOR FIGHTBACKS
BLOCKING DUMMIES COMEBACKS
TACKLING DUMMIES BLOCKBACKS
CHARGING SLEDs DRIVEBACKS
Write for Catalog and Prices
ORIGINATOR AND MANUFACTURING SPECIALIST OF FOOTBALL FIELD EQUIPMENT
MARTY GILMAN, INC., Gilman, Connecticut

Kemp Mfg. Co.

For Single Wing and T-formation
KEMP'S NEW
BLOCKING DUMMIES
Two revolutionary dummies engineered for "human feel" resiliency! Write
KEMP MFG. CO. SANTA BARBARA CALIFORNIA

Murray's Athletic Equipment Co.
National Sports Equipment Co.
Petersen & Co.
Raleigh Co.
Wilson Sporting Goods Co.

Shoes

(See special listing under Shoes)



FOAM-RUBBER SCRIMMAGE DUMMY

• A firm, pliable, resilient, shock-absorbing foam-rubber filled dummy that will retain its shape indefinitely. It is 34" high and has a strong 33 oz. quality canvas cover with heavy, reinforced, moisture-proof, rubber bottom protection.

No. PM50 — \$9.50
6 STYLES AVAILABLE
Send for description

MURRAY'S
ATHLETIC EQUIPMENT
300 BROADWAY
NEW YORK 7, N. Y.

Scoreboards

(Electric)

M. D. Brown Co.
Fred Medart Products, Inc.
Naden & Sons Electric Scoreboard Co.

NADEN & SONS
Electric Scoreboard Co.
MANUFACTURERS OF
FOOTBALL AND BASKETBALL
SCOREBOARDS AND TIMERS
1434 Second Street P. O. Box 141
WEBSTER CITY, IOWA

Neveco Scoreboard Co.

NEVCO SCOREBOARDS

- FOR ALL SPORTS
- BASKETBALL, FOOTBALL
- BASEBALL & HOCKEY

Write for Bulletin No. 12

NEVCO SCOREBOARD COMPANY
GREENVILLE ILLINOIS

GYMNASIUM EQUIPMENT

Complete Equipment

Bradley Washfountain Co. (group showers)
The Carron Net Co. (gym dividing mats)
C. R. Daniels, Inc.
Electric-Aire Eng. Corp. (hair-driers)
Hamilton Mfg. Co. (equipment drier)
Horn Mfg. Co.
Bradley M. Layburn Co.

GYMNASIUM and PLAYGROUND APPARATUS.
PORTABLE WOOD BLEACHERS and STEEL GRANDSTANDS.
SCHOOL DESKS, CHAIRS, TABLES.
BRADLEY M. LAYBURN CO.
461-8th Avenue, New York, N. Y.

The Linen Thread Co., Inc. (gym-dividing nets)

GOLD MEDAL NETS for Gym Division

Gym netting and dividing nets especially adapted for division of indoor floor space. Have multiple uses. Made to order.

The LINEN THREAD CO., Inc.
418 Grand Street Paterson 1, N. J.

Maple Flooring Mfg. Assn. (floors)
Fred Medart Products, Inc. (also Trampoline, Acromat-trampoline)
Mercury Equipment Co. (corrective equipment)
Narragansett Gymnasium Equip. Co. (apparatus)
Nissen Trampoline Co.

NISSEN T-R-A-M-P-O-L-I-N-E
GYMS • BEACHES
PLAYGROUNDS • POOLS
200 A Ave. N.W., Cedar Rapids, Iowa

J. E. Porter Corp.
Rawlings Mfg. Co.
Recreation Equipment Co. (bouncer)
Stewart Iron Works (window guards)
Wilson Sporting Goods Co.
York Barbell Co. (bar bells)

Boxing Equipment

Atlas Athletic Equipment Co.
Ken-Wel Sporting Goods Co.
Bradley M. Layburn Co.
MacGregor-Goldsmith, Inc. (gloves)
Narragansett Gymnasium Equipment Co.
National Sports Equipment Co. (rings, pads, covers, training bags)
Nocona Leather Gds. Co. (boxing gloves, striking bags)
Nonpareil Mfg. Co.
Petersen & Co.
Rawlings Mfg. Co.
Thomas & Regent

THE IMPROVED

SOL LEVINSON

BOXING GLOVES

• Expertly hand-made collegiate and scholastic boxing gloves, especially built to protect hand and thumb. Endorsed by most Pacific Coast coaches.

609 Mission St., San Francisco 5, California

Fencing Equipment

Castello Fencing Equipment Co.
General Sportcraft Co.

Floor Finishes

Bram Chemical Co.

GYM FINISH
(Bram Super-Finish)
High Gloss • Non-Slippery
BRAM CHEMICAL COMPANY
Floor and Sanitation Chemicals
2107 W. Erie Ave., Philadelphia 40, Pa.

Consolidated Laboratories
Continental Car-Na-Var Corp.
C. B. Dolge Co.
Finnell System
Fuld Bros.
The Hillyard Sales Companies (also maintenance)

HILLYARD'S STAR GYM FINISH

- ★ No Glare ★ Super Tough
- ★ Non-Skid ★ Economical

HILLYARD SALES CO.'S

DISTRIBUTORS

HILLYARD CHEMICAL CO. ST. JOSEPH, MO.
1947 BROADWAY, NEW YORK 23, N. Y.
470 ALABAMA ST., SAN FRANCISCO, CALIF.

Huntington Laboratories, Inc.

SEAL-O-SAN

THE PERFECT GYM FLOOR FINISH

A Product of

HUNTINGTON LABORATORIES, Inc.
HUNTINGTON, INDIANA • TORONTO

The Selig Co., Inc.
G. H. Tennant Co. (floor maintenance)
Vestal Chemical Labs.
West Disinfecting Co.
Western Chemical Co.

Folding Bleachers

Horn Bros. Co.

FOLDING BLEACHERS FOLDING PARTITIONS

Sales and Service from Coast to Coast

HORN BROTHERS COMPANY
FORT DODGE, IOWA

Leavitt Corp.
Fred Medart Products, Inc.
Universal Bleacher Co.
Wayne Iron Works (folding grandstands)

Folding Gym Partitions

Horn Brothers Co.

Gym and Wrestling Mats, Covers

American Hair & Felt Co. (hair felt padding)
American Playground Device Co.
Atlas Athletic Equipment Co.
C. R. Daniels, Inc.
Everwear Mfg. Co.
Gilman Sptg. Gds. Co.
A. Mamaux & Son

FLAMEPROOF STAGE CURTAINS AND DRAPERIES

CANVAS ENCLOSURES - WRESTLING MATS
RING COVERS
FLAGS - ALL TYPES

Write for prices

A. MAMAUX & SON

120 Blvd. of the Allies Pittsburgh, Pa.

Fred Medart Products, Inc.
Narragansett Gymnasium Equipment Co.
National Sports Equipment Co.
Petersen & Co.
J. E. Porter Corp.
Raleigh Co.
Wagner Awning & Mfg. Co.

WRITE DIRECTLY TO THE COMPANIES
FOR THEIR CATALOGUES. ADDRESSES
WILL BE FOUND ON PAGE 38. FOR AD-
DRESSES NOT LISTED WRITE SCHOLASTIC
COACH, 7 E. 12th ST., NEW YORK 3, N. Y.

Gym Suits

(Including girls' gym and play suits)

Branigan, Green & Co.
Tom Broderick Co.
Champion Knitwear Co.
Cullum & Boren Co.
Max Goodman & Son
Harmol Mfg. Co.
Hunt's Gym Pants Co., Inc.
MacGregor-Goldsmith, Inc.
National Sports Equipment Co.
Rawlings Mfg. Co.
Wilton Mfg. Co.

Shoes

(See special listing under Shoes)

Coaches Slacks

John J. Fox

FIELD HOCKEY

General Sportcraft Co.
Lovell Mfg. Co.

U. S. A's Finest

LOVELL

Field Hockey Sticks and Balls

They comply with the official
requirements of the A.E.W.H.A.

LOVELL MFG. CO., Erie, Pa.

ICE HOCKEY

Complete Equipment

(Pucks, sticks, skates, uniforms)

C. R. Daniels, Inc.
Ken-Wel Sporting Goods Co., Inc. (gloves,
helmets, pads, pants)
Lovell Mfg. Co.

FOR DEPENDABLE SERVICE

Specify **LOVELL**

ICE HOCKEY STICKS

Pattern Made-Bent Blade,
Laminated and 2-pc. Models

LOVELL MFG. CO., Erie, Pa.

Rawlings Mfg. Co.
Wilson Sporting Goods Co.

Pucks

Seamless Rubber Co.
United States Rubber Co.
W. J. Voit Rubber Corp.

LEATHER PRESERVATIVES

Arrow System
Martin Dennis Co.
Ivory System
MacGregor-Goldsmith, Inc.
Raleigh Co.
John T. Riddell, Inc.
Snow-Proof Co.
Snowshoe Labs.
A. G. Spalding & Bros.
Viscol Company (also waterproofings
saddle soaps)
Wilson Sporting Goods Co.

LOCKER ROOM EQUIPMENT

Baskets

American Playground Device Co.
American Wire Form Co., Inc.

LOCKER BASKETS
Woven and welded check-
ing baskets.

UNIFORM HANGERS
Space saving uniform
hangers.



Made from heavy gage,
doubly welded steel wire.
Available in sizes to meet
your locker room needs.
Write for descriptive lit-
erature.

**AMERICAN
WIRE FORM CO., INC.**
267-273 Grant Ave.,
Jersey City, New Jersey

Berger Mfg Co.
Kasper Wire Works
Bradley M. Layburn Co.
Fred Medart Products, Inc.
Narragansett Gymnasium Equipment Co.
J. E. Porter Corp.
Stewart Iron Works (wire partitions)

Deodorants

Bram Chemical Co.
Consolidated Laboratories
C. B. Dolge Co.
The Hillyard Sales Companies
Huntington Laboratories, Inc.
Pennsylvania Salt Mfg. Co.
The Selig Co., Inc.
Vestal Chemical Labs.

Disinfectants

C. B. Dolge Co.
The Hillyard Sales Companies
Huntington Laboratories, Inc.
Pennsylvania Salt Mfg. Co.
The Selig Co., Inc.
Vestal Chemical Labs.

Foot Baths

American Playground Device Co.
Cramer Chemical Co.
C. B. Dolge Co.
Everwear Mfg. Co.
The Hillyard Sales Companies
Huntington Laboratories, Inc.
J. E. Porter Corp.
Vestal Chemical Labs.
West Disinfecting Co.

Foot Bath Solutions

American Playground Device Co.
Bram Chemical Co.
Consolidated Laboratories
Cramer Chemical Co.
C. B. Dolge Co.
The Hillyard Sales Companies
Huntington Laboratories, Inc.
Pennsylvania Salt Mfg. Co.
J. E. Porter Corp.
The Selig Co., Inc.
Dr. Shiffer's Labs.
Vestal Chemical Labs.
West Disinfecting Co.

Locker Room Cleansers

Berman Chemical Co.
Consolidated Laboratories
C. B. Dolge Co.
The Hillyard Sales Companies
Huntington Laboratories, Inc.
Pennsylvania Salt Mfg. Co.

Pittsburgh Plate Glass Co.
The Selig Co., Inc.
Vestal Chemical Labs.
West Disinfecting Co.

Locker Room Sandals
Beacon Falls Rubber Footwear
Lovell Mfg. Co.
Sani-Tread Co., Inc. (locker room slippers)

Showers

Bradley Washfountain Co. (group showers)

Steel Lockers

Berzer Mfg. Div., Republic Steel Corp.
(also steel shelving)
Dudley Lock Corp. (locker locks)
Fred Medart Products, Inc.
Narragansett Gymnasium Equipment Co.
Standard Steel Equipment Co.

Tile Cleansers

Berman Chemical Co.
Consolidated Laboratories
Continental Car-Na-Var Corp.
C. B. Dolge Co.
The Hillyard Sales Companies
Huntington Laboratories, Inc.
Pennsylvania Salt Mfg. Co.
Vestal Chemical Labs.

Uniform Hangers

American Playground Device Co.
American Wire Form Co., Inc.
Champion Sports Utilities Co.

Wire Mesh Partitions

Fred Medart Products, Inc.
Stewart Iron Works

PLAYGROUND EQUIPMENT

American Bitumuls Co. (surfacing)
American Playground Device Co.

AMERICAN APPROVED EQUIPMENT

World's Foremost Exclusive Manufacturers of the Finest Playground, Swimming Pool and Physical Fitness Apparatus.

Write for Complete Literature, Today

American Playground Device Co.
Anderson, Indiana

Colprovia Roads, Inc. (playground surfacing)

Everwear Mfg. Co.
General Playground Equipment, Inc.
H. & R. Mfg. Co. (swing seats)
Kaye Sportswear (recreational games)
Bradley M. Layburn Co.
The Linen Thread Co., Inc. (volleyball nets)

GOLD MEDAL NETS for Volley Ball

Come in black or white, with patented rope loops, 30 and 32-foot lengths. Heavy duck top binding with taped bottom and ends.

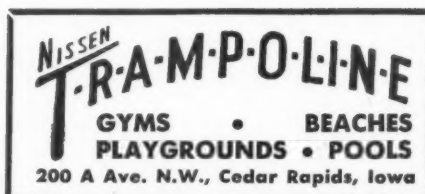
The LINEN THREAD CO., Inc.

418 Grand Street

Paterson 1, N. J.

MacGregor-Goldsmith, Inc.
Fred Medart Products, Inc.

The Nissen Trampoline Co.



Nocona Leather Gds. Co. (volleyballs)
Pennsylvania Athletic Goods Co. (volleyballs, softballs)
Phoenix Mfg. Co. (pitching horseshoes)
J. E. Porter Corp.
Rawlings Mfg. Co.
Recreation Equipment Co.
Sells Aerial Tennis Co. (darts, featherballs)
W. J. Voit Rubber Corp. (balls)

RIFLERY

Rifles

Harrington & Richardson Arms Co.
Marlin Firearms Co.
O. F. Mossberg & Sons
Petersen & Co. (shooting mats)
Remington Arms Co.
Savage Arms Co.
L. C. Smith Gun Co.
J. Stevens Arms Co.
Western Cartridge Co. (ammunition, rifles)
Winchester Repeating Arms Co. (ammunition, rifles)

SHOES

Complete Equipment

(Baseball, basketball, football, gym, track, tennis)

Brooks Shoe Mfg. Co.
Cullum & Boren Co.
Geo. Gillis Shoe Corp.
MacGregor-Goldsmith, Inc.
John T. Riddell, Inc.
Wilson Sporting Goods Co.

Baseball

Beacon Falls Rubber Footwear (softball)
Brooks Shoe Mfg. Co.
Hyde Athletic Shoe Co.
E. O. Meacham Co.
Rawlings Mfg. Co.
John T. Riddell, Inc.
A. G. Spalding & Bros.
United States Rubber Co. (softball)

Basketball

Beacon Falls Rubber Footwear

TOP NOTCH

AMERICA'S
Most Successful
Basketball Shoes



BEACON FALLS RUBBER FOOTWEAR

BEACON FALLS, CONN.

Bristol Mfg. Co.
Brooks Shoe Mfg. Co.

Converse Rubber Co.

CONVERSE

All Star

BASKETBALL SHOES

America's No. 1 Basketball
Footwear

CONVERSE RUBBER CO.
MALDEN 48 MASSACHUSETTS

Max Goodman & Son
B. F. Goodrich Co.
Hood Rubber Co.
Hyde Athletic Shoe Co.
G. R. Kinney, Inc.

THE FAMOUS
Joe Lapchick
"CHAMPION"

LIGHT WEIGHT, SUCTION
CUP SOLES, ENDORSED
BY LEADING COACHES

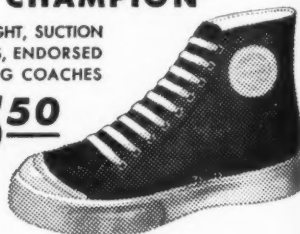
550

BLACK OR
ALL WHITE

WHITE

G. R. KINNEY CO., INC.

2 PARK AVE., NEW YORK 16, N. Y. DEPT. 7



Mishawaka Rubber & Woolen Mfg. Co.
Rawlings Mfg. Co.
John T. Riddell, Inc.
A. G. Spalding & Bros.
United States Rubber Co.

Bowling

Converse Rubber Co.
Hyde Athletic Shoe Co.
MacGregor-Goldsmith, Inc.
A. G. Spalding & Bros.

Football

Brooks Shoe Mfg. Co.
Hyde Athletic Shoe Co.
Rawlings Mfg. Co.
John T. Riddell, Inc.
Taylor Mfg. Co. (cleats)
A. G. Spalding & Bros.

Six-Man Football

Beacon Falls Rubber Footwear
Brooks Shoe Mfg. Co.
Converse Rubber Co.
MacGregor-Goldsmith, Inc.
United States Rubber Co.

Gym

Beacon Falls Rubber Footwear
Brooks Shoe Mfg. Co.
Converse Rubber Co.
Max Goodman & Son.
B. F. Goodrich Co.
Hood Rubber Co.
Mishawaka Rubber & Woolen Mfg. Co.
Rawlings Mfg. Co.
A. G. Spalding & Bros.
United States Rubber Co.

Soccer

Beconta, Inc.
General Sportcraft Co.

Tennis

Beacon Falls Rubber Footwear
Brooks Shoe Mfg. Co.
Converse Rubber Co.
B. F. Goodrich Co.
Hood Rubber Co.
Mishawaka Rubber & Woolen Mfg. Co.
Rawlings Mfg. Co.
A. G. Spalding & Bros.
United States Rubber Co.

Track

Beconta, Inc.
Brooks Shoe Mfg. Co.
Converse Rubber Co.
Rawlings Mfg. Co.
John T. Riddell, Inc.
A. G. Spalding & Bros.
United States Rubber Co.

SOCKS

The Adler Co.
Beacon Falls Rubber Footwear
Champion Knitwear Co.
Hand Knit Hosiery Co.

FOR EVERY SPORT

Shrink-treated



Wigwam Socks

HAND KNIT HOSIERY CO., SHEBOYGAN, WIS.

Harmol Mfg. Co.
King Sportswear Co.
MacGregor-Goldsmith, Inc.
Mishawaka Rubber & Woolen Mfg. Co.
Nelson Knitting Mills
Qualitex Mfg. Co.
Rawlings Mfg. Co.
United States Rubber Co.
Wilson Sporting Goods Co.

SWEATERS AND JERSEYS

American Athletic Wear Co. (warm-up jackets)

ATHLETIC APPAREL

- Basketball, Football, and Baseball Uniforms
- Warm-Up Jackets in many materials
- "T" Shirts
- Award Sweaters—Gym Suits
- Felt and Chenille Letters

CATALOG available on
SPORT MEDALS and TROPHIES

American Athletic Wear Co.
132 Nassau St. New York 7, N. Y.

Butwin Sportswear (award & warm-up jackets)

Champion Knitwear Co.
Cullum & Boren Co.
Hand Knit Hosiery Co.
Harmol Mfg. Co.
Kandel Knitting Mills
King Sportswear Co.
MacGregor-Goldsmith, Inc.
National Schoolcrafters
O'Shea Knitting Mills
Rawlings Mfg. Co.
Roper Knitting Co.
Sand Knitting Mills Co.
Solin Sporting Goods Co. (award sweaters)
A. G. Spalding & Bros.
Trojan Athletic Wear Co.
Wilson Sporting Goods Co.

SOFTBALLS

J. H. Grady Mfg. Co.
Hanna Mfg. Co. (Bats)
Lannom Mfg. Co.
Oregon Worsted Co. (indoor)
Pennsylvania Athletic Goods Co.
A. G. Spalding & Bros.
Sporting Goods, Inc.
W. J. Voit Rubber Corp.
Wilson Sporting Goods Co.

SWIMMING

Bathing Suits and Swim Suits

American Wire Form Co., Inc. (wrist bands, checks, wire baskets)
Champion Knitwear Co.
Gilman Sptg. Gds. Co. (kickfloats)
Harmol Mfg. Co.
MacGregor-Goldsmith, Inc.
George McArthur & Sons (robes)
Ocean Pool Supply Co., Inc.

SWIM SUITS

TRUNKS

ACCESSORIES TEAMS EQUIPPED

Ask for Catalog

OCEAN POOL SUPPLY CO.
1140 Broadway New York 1, N. Y.

O'Shea Knitting Mills
Seamless Rubber Co. (caps)
United States Rubber Co.

Diving Stands

Everwear Mfg. Co.
General Playground Equipment, Inc.
Hussey Mfg. Co.

For Safety and Economy

"Laughing Loon"
WATER SPORTS
Equipment

Diving Boards • Swimming Floats • Float Ladders, etc.

Write for Free catalog

HUSSEY MANUFACTURING CO.
491 D Railroad St. North Berwick, Maine
Also Manufacturers of Hussey Safe Seating

WRITE DIRECTLY TO THE COMPANIES FOR THEIR CATALOGUES. ADDRESSES WILL BE FOUND ON PAGE 38. FOR ADDRESSES NOT LISTED WRITE SCHOLASTIC COACH, 7 E. 12th ST., NEW YORK 3, N. Y.



JACKET FOR
CHAMPIONS
CHAMPION
OF JACKETS



Choice of leading athletic teams year after year—college, pro, and amateur leagues.

Athletic Jackets, Officials' Jackets, Football Parkas, Award Blankets, Warm-Up Suits for basketball and track, Surcoats and Travel Jackets. Distributed by leading sporting goods dealers from coast to coast. Write for name of dealer nearest you.

BUTWIN SPORTSWEAR CO.
FINCH BLDG., ST. PAUL 1, MINNESOTA

National
headquarters for
GYM MATS

DON'T BUY
UNTIL YOU SEE
OUR FREE
ILLUSTRATED CATALOG

WRITE TODAY!

National
sports equipment co.

FOND DU LAC, WISCONSIN
ALMOST A HALF CENTURY OF LEADERSHIP

Bradley M. Layburn Co.
Fred Medart Products, Inc. (also pool ladders)
J. E. Porter Corp.
Recreation Equipment Co.
Wayne Iron Works (grandstands)

Floodlights (Underwater)

Crouse-Hinds Co.

Tile Cleansers

Berman Chemical Co.
The Hillyard Sales Companies

Water Chlorinators

Everson Mfg. Co.
The Hillyard Sales Companies (tile seals, bleaches)
Pennsylvania Salt Mfg. Co.

Pool Vacuum Cleaners

American Playground Device Co.

AMERICAN APPROVED EQUIPMENT

World's Foremost Exclusive Manufacturers of the Finest Playground, Swimming Pool and Physical Fitness Apparatus.

Write for Complete Literature, Today
American Playground Device Co.
Anderson, Indiana

General Playground Equipment, Inc.
Recreation Equipment Co.
Standard Pool Cleaner Co.

TUEC

Vacuum Cleaners for Swimming Pools
Write for complete information on how to keep your pool clean without draining.
THE STANDARD POOL CLEANER CO.
1320 GREENFIELD AVE. S.W. CANTON, O.

TENNIS

Complete Equipment

Allison Mfg. Co. (markers)
American Bitumuls Co. (court surfacing)
Colprovia Roads, Inc. (court surfacing)

Durable Economical Resilient
COLPROVIA
ALL WEATHER SURFACE
FOR COURTS AND PLAY AREAS
COLPROVIA ROADS, INC.
183 E. Main St. 51 E. 42nd St.
Rochester 4, N. Y. New York 17, N. Y.
or your local Colprovia producer

Continental-Vogue Co. (tennis equip. trunk)
Cortland Line Co.
Cragin-Simplex Co. (rackets)
E. I. DuPont De Nemours Co. (nylon racket strings)
General Sportcraft Co.
H. & R. Mfg. Co. (markers)
E. P. Juneman Corp. (strings)
Ken-Wel Sporting Goods Co., Inc.

MacGregor-Goldsmith, Inc. (balls, nets, shoes)
J. E. Porter Corp. (posts, nets, reels, markers)
Rawlings Mfg. Co.
A. G. Spalding & Bros.
United Clay Mines Corp. (markers)
Wilson Sporting Goods Co.

Backstops

Continental Steel Corp.
Recreation Equipment Co.
Stewart Iron Works
Wayne Iron Works

Balls

Dunlop Tire & Rubber Corp.
Max Goodman & Son

SPECIAL OFFER

Tennis Balls — in Containers
U.S.I.T.A. Approved—Seamless Rubber Co.

\$4.85 DOZ. WOOL COVER

Towels — Heavy White Terry

20 x 40 Plain Terry 6.00 Doz.

20 x 40 Ribbed 6.00 Doz.

22 x 44 Plain Terry 6.75 Doz.

1st QUALITY

MAX GOODMAN & SON

Gym, School, and Camp Outfits
40 EAST 12th ST., NEW YORK 3, N. Y.

SEND US YOUR BIDS

Pennsylvania Athletic Goods Co.
Rawlings Mfg. Co.
A. G. Spalding & Bros.
W. J. Voit Rubber Co.
Walkay Co. (practice balls)

Dust Settlers

Gulf Refining Co.
Pittsburgh Plate Glass Co.
Solvay Sales Corp.

Nets

American Chain & Cable Co., Inc.
American Playground Device Co.
The Carron Net Co.

CARO-NET SPORTS and FISH NETS

Tennis — Volleyball
Badminton — Basketball Nets
All Type Gym Nets

THE CARRON NET COMPANY
TWO RIVERS WISCONSIN

Cortland Line Co.
Everwear Mfg. Co.
The Linen Thread Co., Inc. (nets)

GOLD MEDAL NETS for Tennis

Famous Champion and Tournament. Double Center models available. Latest improvements. Long wearing and extra durable.

The LINEN THREAD CO., Inc.

418 Grand Street Paterson 1, N. J.

Fred Medart Products, Inc. (standards)
Rawlings Mfg. Co.
Recreation Equipment Co. (all metal)
A. G. Spalding & Bros.

TIMERS

(Stop Watches)

Carson Pirie Scott & Co.
Clebar Watch Co.

Accurate, Dependable

STOP WATCHES

for all sports and laboratory needs.
Made by one of the finest watch makers.

Clebar Timers meet the requirements of the National Bureau of Stop Watch Precision test.

Send for complete Illustrated Catalog

CLEBAR WATCH CO., Inc.
551 FIFTH AVE., NEW YORK 17, N. Y.

M. Ducommun Co.
Fair Play Co.
Gray Laboratory & Mfg. Co. (electric)
Juba Sporting Goods
May & Halas, Inc.
Pratt & Morris
Jules Racine & Co.
Rawlings Mfg. Co.
Southern Precision Instrument Co.
A. G. Spalding & Bros.
Herman Sticht Co.
Technical Instruments, Inc.

Stop Watch Repairs

Clebar Watch Co.
MacGregor-Goldsmith, Inc.
Jules Racine & Co.

TRACK AND FIELD

Complete Equipment

(Hurdles, vaulting poles, javelins, shots, shoes, etc.)

R. W. Arnett (starting blocks)

ARNETT STARTING BLOCKS



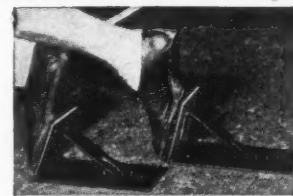
• The champion's block . . . individual adjustments take only 3 to 7 sec. . . . replaceable rubber foot facings . . . \$18 ea.

RICHARD W. ARNETT

P. O. Box 527 Inglewood, Calif.

George T. Bresnahan (starting blocks)

STARTING BLOCKS \$4.00 per pr.



G. T. BRESNAHAN

1033 E. BURLINGTON ST., IOWA CITY, IA.

Champion Knitwear Co.

John T. Core (score cards)

* FIVE STAR TRACK SCORE CARDS *

* An IQ test for natural ability of track and physical education groups. Five events, 100-880-Shot-High & Broad Jumps.

* **JOHN T. CORE**
* 1224 W. BROAD ST. RICHMOND, VA. *

Harrington & Richardson Arms Co.
(starting pistols)
K. & P. Athletic Co. (metal cross-bars)



DOW-METAL CROSSBARS

• Perfect for pole vaulting and high jumping. Meet official specifications. Uniform all the way across, painted in black-and-white stripes, offer no danger of splintering. Will last three years or longer.

K. & P. ATHLETIC CO.
1115 JEROME ST. MIDLAND, MICH.

MacGregor-Goldsmith, Inc.
The Miller Co. (starting blocks)
Carl H. Olson (score cards)

• **Olson Track and Field Score Cards.**
• **Complete Summary and Event**
• **Cards for Conducting Your Track**
• **Meets.**
• **CARL H. OLSON**
• **BOX 567 PATCHOGUE, N. Y.**

J. E. Porter Corp.
Rawlings Mfg. Co.
Sully Press (competitors numbers)

Competitor Numbers and Relay Letters for track and field meets

On heavy manila stock for immediate delivery.
Also numbers printed on cloth lined stock made to order.

234

A-2

SULLY PRESS, Inc.
8 COES PLACE NEWARK 2, N. J.
SEND FOR SAMPLES AND PRICES

Wilton Mfg. Co. (uniforms)

Vaulting Poles
Beconta, Inc. (tapered steel)
Cullum & Boren Co.
Fred Medart Products, Inc.

Shoes
(See special listing under Shoes)

WRITE DIRECTLY TO THE COMPANIES FOR THEIR CATALOGUES. ADDRESSES WILL BE FOUND ON PAGE 38. FOR ADDRESSES NOT LISTED WRITE SCHOLASTIC COACH, 7 E. 12th ST., NEW YORK, N. Y.

TRAINING ROOM SUPPLIES

Complete Equipment
Athletic Trainers Supply Co
Chem Products, Inc. (non-slip preparation for the hands)
E-Z Walk Corp.

INSOLES

• **LA FOME RUBBER**

"PILLOW LIKE SOFTNESS"

• **SPONGE RUBBER**

"EASES TIRED FEET"

E-Z WALK CORP., 37 WEST 20 ST., N. Y.

Logan Athletic-Trainers Aids
A. G. Spalding & Bros.
Wilson Sporting Goods Co.

Absorbent Cotton

Bike-Web Mfg. Co.
MacGregor-Goldsmith, Inc.
Wilson Sporting Goods Co.

Antiseptics

Consolidated Laboratories
The Hillyard Sales Companies
Hynson, Westcott & Dunning, Inc.
(Mercurochrome)
Wilson Sporting Goods Co.

Athlete's Foot Preventives

American Playground Device Co. (foot baths)
Bell-Mack Labs. ("Niram" for Jock-Itch)
Bram Chemical Co.
Consolidated Laboratories
C. B. Dolge Co.
Fuld Bros.
Everwear Mfg. Co.
The Hillyard Sales Companies
Huntington Laboratories, Inc.
Lovell Mfg. Co. (wood sole sandals)

KLAKS

Hygienic Wood Sole Sandals

- No better safeguard against Athletes Foot.
- Comfortable, foot-fitting styles for men and women.

LOVELL MFG. CO., Erie, Pa.

The Mennen Co.
Peda-Spray Co., Inc. (foot spray dispenser)
Pennsylvania Salt Mfg. Co.
Pharma Craft Corp. ("Ting" athlete's foot remedy)
J. E. Porter Corp.
Dr. Shiffer's Labs.
West Disinfecting Co.
Wyeth, Inc.

Bandages

Becton, Dickinson & Co. (Ace Elastic)
Bike-Web Mfg. Co.
Johnson & Johnson
MacGregor-Goldsmith, Inc.
J. E. Porter Corp.
Rawlings Mfg. Co.
Smith & Waite (ankle wrap)
Wilson Sporting Goods Co.

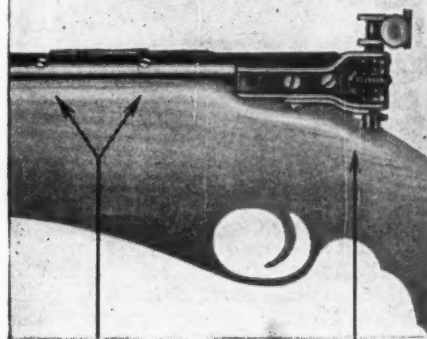
ATHLETES
EVERYWHERE
PREFER



IN 33 SCHOOL COLORS
America's Finest—all-virgin wool
write Kandel Knitting Mills
4834 Interstate • Portland, Oregon

LOOK FOR THESE FEATURES

They mean more for your money with Mossberg



Mossberg rifles are tapped, drilled (or grooved) for mounting Mossberg scope sights. You can mount them yourself in a couple of minutes. Convenient, economical.

Hinged peep sight with micro-click adjustments for windage and elevation. A high-precision sight designed for and supplied to U.S. War Dept. Standard equipment (no extra cost) on most Mossberg rifles.

Two of many
Mossberg Exclusive Features

SEE THEM AT
YOUR DEALER'S
FREE catalog on
request

No sales at factory

98706 St. John Street, New Haven 5, Conn.



ATHLETES
EVERYWHERE
PREFER

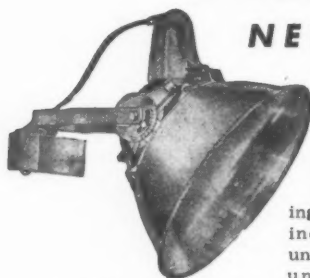
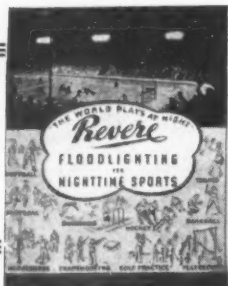


IN 33 SCHOOL COLORS
America's Finest—all-virgin wool
write Kandel Knitting Mills
4834 Interstate • Portland, Oregon

PLAN NOW

For Next Season's
**NIGHTTIME SPORTS
LIGHTING**

Write for
this
Catalog
TODAY!



NEW!

New 20"-19" and 50" Flood for long range lighting. Every SportsLighting job should include these units. Has many unusual features for Safety, Ease of Wiring and Maintenance.

REVERE ELECTRIC MFG. CO.

6019 Broadway, Chicago 40, Ill.

**NOW at the End of
the School Year...
DON'T NEGLECT
YOUR EQUIPMENT**

PRESERVE YOUR SPORTS EQUIPMENT

Don't wait . . . school is over . . . and it's time to send that sports equipment straight to MARBA. Yes . . . moths and mildew will quickly deteriorate that equipment, if it is neglected. But MARBA's up-to-date, time-saving, economical plan . . . assures you that your equipment will be preserved for another season. Remember . . . it's imperative that your sports equipment be sent to MARBA at once. Write today for complete information.



MARBA INC.
ATHLETIC EQUIPMENT RECONDITIONERS
435-31 NIAGARA ST. BUFFALO 1, N.Y.

WRITE DIRECTLY TO THE COMPANIES FOR THEIR CATALOGUES. ADDRESSES WILL BE FOUND ON PAGE 38. FOR ADDRESSES NOT LISTED WRITE SCHOLASTIC COACH, 7 E. 12th ST., NEW YORK, N. Y.

Pads and Guards

Bike-Web Mfg. Co.
Matthews Abdo-Guard
The Miller Co. (knee braces)
O-C Manufacturing Co.
Rawlings Mfg. Co.
Smith & Waite (knee braces)

Poultice

Denver Chemical Co. (antiseptic dressing)

Protectors

Davis-Weaver Co. (protector for face)
Kayart Plastic Co. (for glasses)

Kayart "Sportglas" \$3.50



● Eyeglass Protector made from top-grade Plexiglas lined with Goodyear Airfoam . . . adjustable head straps of elastic webbing . . . extremely lightweight . . . clarity of glass and unbreakable . . . perfect for gym classes and heavy sports. . . .

See your dealer or order from
KAYART PLASTIC CO.
GEORGETOWN, N. Y.

Willson Products, Inc. (for glasses)



A Perfect Eye Cue PLASTIC LENS

● Made especially for safety plus comfort, this one-piece plastic lens gives athletes clear, unobstructed vision and protection. Adaptable to all indoor and outdoor sports.

WILLSON PRODUCTS INC.

2nd St., Reading, Pa.

First Aid Kits

Bike-Web Mfg. Co.
The Hillyard Sales Companies
MacGregor-Goldsmith, Inc.
J. E. Porter Corp.
Rawlings Mfg. Co.
Wilson Sporting Goods Co.

Heat and Sun Lamps, Pads

Bike-Web Mfg. Co.
J. H. Eastman Co.
General Electric Co. (sun lamps)
Hanovia Chemical & Mfg. Co.
J. E. Porter Corp.

Hydrotherapy Bath

Irving Welsted

Tape, Adhesive and Medicated

Arno Adhesive Tapes, Inc.

TRAINER'S TAPE

Especially Designed for Athletic Use
Elastic and Conformable

Arno Adhesive Tapes, Inc.
Michigan City, Indiana

Becton, Dickinson & Co.
Bike-Web Mfg. Co.
Johnson & Johnson
MacGregor-Goldsmith, Inc.
Seamless Rubber Co.
Wilson Sporting Goods Co.

Towels

Champion Knitwear Co.
Theodore Mayer & Co.

GYMNASIUM TOWELS

For Fall

THEODORE MAYER & COMPANY
305 West Adams Street
CHICAGO 6 ILLINOIS

George McArthur & Sons

McARTHUR

Gymnasium Towels
Terry Cloth Bathrobes

Fine Products Designed for
Cost-Conscious Schools

OVER 2000 SATISFIED ACCOUNTS
WRITE FOR PRICES AND SPECIFICATIONS

Order NOW for Sure Delivery

GEO. McARTHUR AND SONS, INC.
BARABOO-WISCONSIN

Buy brands advertised in Scholastic Coach. Support of Scholastic Coach by its advertisers merits your support of their products. Addresses of advertisers appear on pages 38 and 39.

BADMINTON

Davidson, Ken: *Fundamental Badminton*, Feb., p. 18.

BASEBALL

Allen, Ethan: *Double 'em Up!*, Feb., p. 8.
Bolin, Carl E.: *Operation Outfield*, Feb., p. 14.
DiMaggio, Joe: *How I Bat*, Apr., p. 7.
Roberts, A. W.: *Control the Pitcher*, Apr., p. 18.
Schumacher, Hal: *Pitching*, Mar., p. 8.
Tierney, Robert: *Diamond Drills*, Feb., p. 7.

Baseball Fundamentals (Hubbell, Hartnett, Hornsby, et al), May, p. 7.
The Right Kiner Swing, May, p. 12.

BASKETBALL

Bee, Clair: *Bench Strategy*, Nov., p. 8.
Burgoyne, Bus: *Tip-Off Revival*, Nov., p. 24; *Free-Lance Attack*, Dec., p. 14.
Case, Everett N.: *North Carolina State's Change-of-Pace Attack*, Dec., p. 7.
Clagg, Sam E.: *The Basketball Crowd "Menace"*, Apr., p. 40.
Gray, Jack: *Texas' Custom-Fit Offense*, Dec., p. 12.
Hasser, George V.: *Passing Thoughts*, Nov., p. 12.
Hobson, Howard: *Material and System*, Nov., p. 10; *Yale's Fast Break*, Dec., p. 10.
Jones, E. D.: *Building a Winning Attack*, Dec., p. 25.
Lappenbusch, Chuck: *More on Straight-Line Defense*, Nov., p. 14.
Rarick, G. L., and Staton, W. M.: *Free Throwing: Which Style?*, Feb., p. 48.
Rupp, Adolph: *Kentucky's Pivot-Post*, Nov., p. 7.
Scropos, Ted: *Basketball Scouting*, Dec., p. 54.
Smith, Huron J., and Morris, Marty: *Foul-Shooting Drill*, Feb., p. 32.
Sullivan, Kenneth G.: *Basketball Officialing Survey*, Dec., p. 18.
Tryhall, Don: *Basketball Rules Quiz*, Dec., p. 38.

BOXING

Giannoni, J. M., and Loveall, James: *A Safe and Sane Schoolboy Boxing Program*, May, p. 22.

FACILITIES AND EQUIPMENT

Bresnahan, George T.: *Maintenance of the Indoor Plant*, Jan., p. 30; *Maintenance of the Football Field*, Mar., p. 34; *Maintenance of the Outdoor Plant*, Apr., p. 26.
Gardner, Ralph H.: *Football Sees the Light*, Jan., p. 7.
Highland, James F.: *Visual Aids in Coaching*, Jan., p. 16.
Holmes, R. E., and Allen, C. J.: *Gymnasium Lighting*, Nov., p. 28.
Lamar, Emil: *Football Practice Devices*, June, p. 20.
Meyer, Kenneth L.: *Purchase and Care of Equipment*, Jan., p. 14.
Seaton, Don Cash: *Safe Construction*, Feb., p. 40.
Sleeper, Harold R.: *Indoor Seating Survey*, Oct., p. 36.

Strong, Russell A.: *A Model Small School Sports Plant*, Sept., p. 18.

Good Indoor Surfacing, Dec., p. 22.
Indoor Instruction Units, Jan., p. 26.
The Alhambra Floods, May, p. 30.
Utica's Dream Gym, Jan., p. 10.

FENCING

Strobel, William F.: *Foiled!*, Mar., p. 20.

FOOTBALL

Avedisian, Charlie: *Good Scouting*, Oct., p. 22.
Benton, Jim: *Play of the End*, Sept., p. 14.
England, Frosty: *Downfield Blocking Analyzed*, Sept., p. 36.
Golden, Johnnie: *Controlled Kicking*, Sept., p. 8; *The Controlled Punt*, Oct., p. 12.
Harman, Harvey: *Defensive Line Play*, June, p. 10.
Hensley, Ralph E.: *Football as a Teaching Situation*, Oct., p. 42.
Higgins, Bob: *Penn State Football*, Oct., p. 14.
Leahy, Frank: *Notre Dame's Quick Opener*, June, p. 7.
Liegerot, Giles F.: *4-4-2-1 An-T-idote*, Sept., p. 10.
MacKenzie, Sarge: *Outside Attack from the Straight T*, June, p. 14.
Meyer, Leo (Dutch): *T.C.U.'s Air Arm*, Oct., p. 8.
Munger, George: *Offensive Line Play*, Sept., p. 12.
Munn, Biggie: *Michigan State Line Play*, Oct., p. 7.
Richardson, Len: *The Diamond T*, Sept., p. 54.
Schwartzwalder, Floyd B.: *Georgia Tech's Passing Game*, Oct., p. 10; *Georgia Tech's Pass Defense*, Nov., p. 18.
Snavey, Carl: *Ball-Handling in the Single Wing*, Sept., p. 7.
Thayer, J. A.: *Simplified Pass Defense*, Sept., p. 30.

Football Plays by Famous Coaches, Oct., p. 26.

GYMNASTICS-TUMBLING

Footrick, William: *Basic Trampolining*, Jan., p. 38.
Miller, Jack: *Balancing*, May, p. 18.

PHYSICAL ED AND COACHING

Conklin, Eugene A.: *Press-Coach Relations*, Mar., p. 54.
Copeland, Dodd: *Intramurals Through Sports Clubs*, Oct., p. 50.
Klein, Irwin: *How Westchester Sells Its Sports Program*, Sept., p. 58; *Run Your Own Clinic!*, Mar., p. 24.
Leech, Homer: *Eliminate the Boo*, Sept., p. 26.
Loken, Newton C.: *Modern Cheerleading*, Oct., p. 46.
Martin, Lyle C.: *Sportsmanship Code*, Oct., p. 24.
Ross, Roland F.: *Noon-Hour Intramurals*, June, p. 42.

Sullivan, Kenneth G.: *Athletic Awards*, Sept., p. 52.
Weiss, Alan H.: *New Outlook in Physical Education*, Sept., p. 62.

RIFLERY

Mann, E. B.: *The Fallacy of Escopetaphobia*, Nov., p. 40.
Rogers, C. R.: *Shooting Made Easy*, Oct., p. 40.

SOCCER

Renzulli, Pete: *Organization for Soccer*, Sept., p. 22; *Net Results*, Oct., p. 16.

SWIMMING

Merchant, Frank C.: *First Steps in the Water*, Apr., p. 22.

TABLE TENNIS

Table Tennis Strokes (Service, Forehand, Backhand), Dec., p. 28.

TENNIS

Seewagen, George L.: *High School Tennis*, Mar., p. 16; *Forehand and Backhand*, Apr., p. 12; *Service and Volley*, May, p. 10.
Jack Kramer Serving (Action Pictures), May, p. 11.

TRACK AND FIELD

Bernstein, Richard L.: *Distance Running*, Mar., p. 12.
Boylan, Cliff: *A Race Every Four Minutes*, Mar., p. 44.
Cromer, Meredith: *Time Savers in Track Coaching*, May, p. 14.
Fischer, E. O.: *Track Stimulant for the Small School*, Feb., p. 28.
Ganslen, Richard V.: *High Hurdling*, Feb., p. 11.
Lamar, Emil: *Track Meet, California Style*, Apr., p. 36.
O'Connor, W. Harold: *The Right Man for the Right Event*, Feb., p. 24; *Coach with Your Camera!*, Apr., p. 38.
Spitz, George B.: *The New Western Roll*, May, p. 8.
Thomas, E. A.: *National Honor Roll, Schoolboy Track*, Dec., p. 36.
Yancey, Joe, and Goldstein, Cliff: *Relay Conditioners*, Mar., p. 7.

Dillard, Duff, Finley (Hurdling Pictures), Feb., p. 12.
Gaston Reiff, *Olympic Distance Champion* (Action Pictures), Apr., p. 11.

TRAINING-HYGIENE

Dodd, Gilbert B.: *Your Training Room*, Sept., p. 24.
Donn, Dr. Henry F.: *The Schoolboy's Diet*, Dec., p. 46; *The Athlete's Diet*, Feb., p. 34; *Simplified First Aid*, Apr., p. 30.
Gildea, Dennis A.: *Right Food Forward*, Sept., p. 42.
Jackson, C. O.: *Health Hazards in Sports*, Nov., p. 44; *Health Safeguards in Sports*, Jan., p. 58; *Health Examinations*, Mar., p. 28.

ADVERTISERS

- ALL-AMERICAN TROPHIES**
West Washington St., Syracuse, N. Y.
- ALLISON MANUFACTURING CO.**
Decorah, Iowa
- AMERICAN CHAIN & CABLE CO., INC.**
929 Connecticut Ave., Bridgeport, Conn.
- AMERICAN HAIR & FELT CO.**
222 N. Bank Drive, Chicago 54, Ill.
- AMERICAN PLAYGROUND DEVICE CO.**
1801 Jackson St., Anderson, Ind.
- AMERICAN WIRE FORM CO.**
265 Grant Ave., Jersey City 5, N. J.
- ARMOUR & CO.**
Union Stock Yards, Chicago 9, Illinois
- R. W. ARNETT**
P. O. Box 527, Inglewood, Calif.
- ARROW SYSTEM**
45 Brook St., Lawrence, Mass.
- ASSOCIATION FILMS**
347 Madison Ave., New York 17, N. Y.
- ATLAS ATHLETIC EQUIPMENT CO.**
1240 South Seventh St., St. Louis, Mo.
- AVIS FILMS, INC.**
932 N. La Brea Ave., Hollywood, Calif.
- AWARD INCENTIVES, INC.**
160 Broadway, New York 7, N. Y.
- CHARLES W. BACHMAN**
929 Roxburgh Road, East Lansing, Mich.
- BEACON FALLS RUBBER FOOTWEAR**
Beacon Falls, Conn.
- BECONTA, INC.**
418 Fourth Ave., New York, N. Y.
- BECTON, DICKINSON & CO.**
Rutherford, N. J.
- BELL MAT RECONDITIONING CO., INC.**
184 Barton St., Buffalo, N. Y.
- BERMAN CHEMICAL CO.**
714 Superior St., Toledo 4, O.
- BIKE-WEB MFG. CO.**
2500 South Dearborn St., Chicago 16, Ill.
- BRADLEY WASHFOUNTAIN CO.**
2203 W. Michigan St., Milwaukee, Wis.
- GEORGE T. BRESNAHAN**
1033 E. Burlington St., Iowa City, Iowa
- BROOKS SHOE MFG. CO.**
58th & Market Sts., Philadelphia 39, Pa.
- M. D. BROWN CO.**
Lake St., Niles, Mich.
- BUTWIN SPORTSWEAR CO.**
241 E. Fifth St., St. Paul, Minn.
- CARSON PIRIE SCOTT & CO.**
1 South State St., Chicago, Ill.
- CASTELLO FENCING EQUIPMENT CO.**
232 E. 9th St., New York, N. Y.
- CEDAR KRAFT CO.**
948 Pennoyer Ave., Grand Haven, Mich.
- CHAMPION KNITWEAR CO.**
71 St. Paul St., Rochester 4, N. Y.
- CHEM PRODUCTS, INC.**
15 Lewis St., Hartford, Conn.
- E. J. CLARKE**
Box 521, Havertown, Pa.
- CLEBAR WATCH CO.**
551 Fifth Ave., New York 17, N. Y.
- CONTINENTAL TRUNK CO.**
585 Howard St., San Francisco, Calif.
- CONVERSE RUBBER CO.**
Malden 48, Mass.
- JOHN T. CORE**
1224 W. Broad St., Richmond 20, Va.
- CORTLAND LINE CO., INC.**
73 E. Court St., Cortland, N. Y.
- CROUSE-HINDS CO.**
Syracuse 1, N. Y.
- VINCENT D'ATTILO**
8 South 5th St., Philadelphia 6, Pa.
- C. R. DANIELS, INC.**
Daniels, Md.
- DAVIS-WEAVER COMPANY**
202 Willoughby Ave., Brooklyn, N. Y.
- DENKERT INCORPORATED**
Johnstown, N. Y.
- DENVER CHEMICAL MFG. CO.**
163 Varick St., New York 13, N. Y.
- DEWEY & ALMY CHEMICAL CO.**
Cambridge 40, Mass.
- C. B. DOLGE CO.**
Westport, Conn.
- M. DUCOMMUN CO.**
580 Fifth Ave., New York 19, N. Y.
- DUNLOP TIRE & RUBBER CORP.**
River Road and Sheridan, Buffalo 7, N. Y.
- E. I. DU PONT DE NEMOURS & CO., INC.**
Arlington, N. J.
- E-Z WALK CORPORATION**
27 West 20th St., New York, N. Y.
- EAGLE METALART CO.**
298 Broadway, New York 7, N. Y.
- ENCYCLOPAEDIA BRITANNICA FILMS, INC.**
20 N. Wacker Dr., Chicago 6, Ill.
- FAIR PLAY CO.**
1250 Grand Ave., West Des Moines, Iowa
- FELCO ATHLETIC WEAR CO.**
543 Broadway, New York, N. Y.
- JOHN B. FLAHERTY CO., INC.**
611 East 133rd St., Bronx, N. Y.
- JOHN J. FOX**
P. O. Box 806, Beverly Hills, Calif.
- GENERAL ELECTRIC CO.**
1 River Rd., Schenectady 5, N. Y.
- GENERAL FOODS CORP.**
275 Cliff Street, Battle Creek, Mich.
- GENERAL SPORTCRAFT LTD.**
215 Fourth Ave., New York 3, N. Y.
- GILBERT & COMPANY**
208 Eleventh Ave. So., Minneapolis, Minn.
- GEORGE GILLIS SHOE CORP.**
79 Rollstone St., Fitchburg, Mass.
- GREENE CO.**
175 Fifth Ave., New York 10, N. Y.
- GULF OIL CORPORATION**
Gulf Bldg., Pittsburgh 30, Pa.
- H. & R. MFG. CO.**
3421 Mentone Ave., Los Angeles 34, Calif.
- HAND KNIT HOSIERY CO.**
Sheboygan, Wis.
- HANNA MFG. CO.**
Athens, Ga.
- HARRINGTON & RICHARDSON ARMS CO.**
320 Park Ave., Worcester 2, Mass.
- HILLERICH & BRADSBY CO.**
434 Finzer St., Louisville 2, Ky.
- THE HILLYARD SALES COMPANIES**
St. Joseph 1, Mo.
- HODGMAN RUBBER CO.**
Framingham, Mass.
- HOOD RUBBER CO.**
Watertown, Mass.
- HORN BROS. CO.**
Ft. Dodge, Iowa
- THE HOUSE OF HARTER**
30 Harter Bldg., Goshen, Indiana
- HUNTINGTON LABORATORIES, INC.**
Huntington, Ind.
- HUSSEY MFG. CO.**
North Berwick, Maine
- SAM W. INGRAM & ASSOCIATES**
Box 89, Hamilton, N. Y.
- IVORY SYSTEM**
Peabody, Mass.
- JOHNSON & JOHNSON**
New Brunswick, N. J.
- K. & P. ATHLETIC CO.**
115 Jerome St., Midland, Mich.
- ARTHUR KAHN CO., INC.**
444 Fourth Ave., New York 16, N. Y.
- KAYART PLASTIC CO.**
Georgetown, N. Y.
- KANDEL KNITTING MILLS**
4834 N. Interstate Ave., Portland, Oregon
- KEN-WEL SPORTING GOODS CO.**
Utica, N. Y.
- KERRIGAN IRON WORKS, INC.**
Nashville, Tenn.
- KING SPORTSWEAR CO.**
1848 N. Wilmot Ave., Chicago 47, Ill.
- EDWIN W. LANE CO.**
32 West Randolph St., Chicago, Ill.
- BRADLEY M. LAYBURN**
461 Eighth Ave., New York 1, N. Y.
- LEAVITT CORP.**
Box 33, Urbana, Ill.
- LINEN THREAD CO.**
418 Grand St., Paterson, N. J.
- MacGREGOR-GOLDSMITH, INC.**
John & Findlay Sts., Cincinnati 14, Ohio
- GEORGE McARTHUR & SONS**
122 Water St., Baraboo, Wis.
- MATT L. McBRIDE**
7427 Ingleside Ave., Chicago 19, Ill.

McLAUGHLIN-MILLARD, INC.
Dolgeville, N. Y.

MAGNAVOX CO.
737 No. Michigan Ave., Chicago, Ill.

MAJESTIC SERVICE
36-08 34th St., Long Island City, N. Y.

A. MAMAUX & SON
120 Boulevard of the Allies, Pittsburgh 22, Pa.

MARBA, INC.
431 Niagara St., Buffalo 1, N. Y.

E. O. MEACHAM CO.
3512 S. Michigan Blvd., Chicago, Ill.

FRED MEDART PRODUCTS, INC.
3535 De Kalb St., St. Louis, Mo.

THE MILLER CO.
Reinbeck, Iowa

MISHAWAKA RUBBER & WOOLEN MFG. CO.
Mishawaka, Indiana

C. V. MOSBY CO.
3207 Washington Blvd., St. Louis 3, Mo.

O. F. MOSSBERG & SONS
New Haven 5, Conn.

MURRAY'S ATHLETIC EQUIPMENT CORP.
300 Broadway, New York, N. Y.

MUTUAL LIFE INSURANCE CO. OF N. Y.
34 Nassau St., New York 5, N. Y.

NADEN & SONS ELEC. SCOREBOARD CO.
1434 Second St., Webster City, Iowa

NARRAGANSETT GYMNASIUM EQUIPMENT CO.
5 Sabin St., Pawtucket, R. I.

NATIONAL SPORTS EQUIPMENT CO.
19 East McWilliams St., Fond Du Lac, Wisc.

NEVCO SCOREBOARD CO.
Greenville, Ill.

THE NISSEN TRAMPOLINE
200 A Avenue, N. W., Cedar Rapids, Iowa

NOCONA LEATHER GOODS CO.
Nocona, Texas

NURRE COMPANIES, INC.
Bloomington, Ind.

O-C MANUFACTURING CO.
5 Center Ave., Little Falls, N. J.

OCEAN POOL SUPPLY CO.
1140 Broadway, New York 1, N. Y.

C. J. O'CONNOR
1008 Brevard St., Baltimore 1, Md.

OHIO-KENTUCKY MFG. CO.
106 Liberty St., Ada, Ohio

OLIVER BROS.
721 Arch St., Philadelphia 6, Pa.

OREGON WORSTED CO.
8300 S. E. McLoughlin Blvd., Portland 2, Ore.

O'SHEA KNITTING MILLS
1860 N. Wilmet Ave., Chicago 47, Ill.

PASSON SPORT CENTER, INC.
507 Market St., Philadelphia, Pa.

W. H. PAYNE
2210 Isabelle Ave., San Mateo, Calif.

PENNSYLVANIA ATHLETIC GOODS CO.
Jeannette, Pa.

PENNSYLVANIA SALT MFG. CO.
1000 Widener Bldg., Philadelphia, Pa.

PETERSEN & CO.
5561 Baynton St., Philadelphia 44, Pa.

PHARMA CRAFT CORP.
405 Lexington Ave., New York, N. Y.

PITTSBURGH-DES MOINES STEEL CO.
3400 Grand Ave., Pittsburgh, Pa.

POWERS MFG. CO.
Waterloo, Iowa

PRENTICE HALL, INC.
70 Fifth Ave., New York 1, N. Y.

PROFESSIONAL APPLIANCE CO.
1139 E. Knapp St., Milwaukee 2, Wis.

THE QUAKER OATS CO.
141 W. Jackson Blvd., Chicago 4, Ill.

QUALITEX MFG. COMPANY
3701 North Broad St., Philadelphia, Pa.

RAWLINGS MFG. COMPANY
2307 Lucas Ave., St. Louis 3, Mo.

RED FOX MFG. COMPANY
1612 Federal, Dallas, Texas

REGALIA MANUFACTURING CO.
Rock Island, Ill.

REMINGTON ARMS CO.
Bridgeport 2, Conn.

REVERE ELECTRIC CO.
6019 Broadway, Chicago 40, Ill.

JOHN T. RIDDELL, INC.
1259 N. Wood St., Chicago 22, Ill.

SAFE-PLAY GOGGLE CO.
5401 Wilshire Blvd., Los Angeles 36, Calif.

SEAMLESS RUBBER CO.
253 Hallock Ave., New Haven, Conn.

SCHALL'S DOWN INDICATOR
2201 K Street, Sacramento, Calif.

SHADOGRAF MFG. CO.
Anchor, Ill.

WILLIAM SKINNER & SONS
45 East 17th St., New York 3, N. Y.

SMITH & WAITE
Box 7205, Pittsburgh, Pa.

SOLIN SPORTING GOODS CO.
414 E. Tremont Ave., New York, N. Y.

SOUTHERN PRECISION INSTRUMENT CO.
Moore Bldg., San Antonio, Tex.

SOUTHWEST MFG. CO.
P. O. Box 2339, Little Rock, Ark.

A. G. SPALDING & BROS.
161 Sixth Ave., New York 18, N. Y.

SPORTING GOODS DEALER
2018 Washington Ave., St. Louis, Mo.

STEWART IRON WORKS CO., INC.
Box 1039, Cincinnati 1, Ohio

SULLY PRESS
8 Coes Place, Newark, N. J.

TAYLOR MFG. CO.
300 East Pacific, Salina, Kansas

ALEX TAYLOR
22 East 42 St., New York, N. Y.

UNITED LABS., INC.
16803 Euclid Ave., Cleveland 12, Ohio

UNITED STATES RUBBER CO.
1230 Avenue of the Americas, New York 20, N. Y.

UNIVERSAL BLEACHER CO.
606 S. Neil St., Champaign, Ill.

W. J. VOIT RUBBER CORP.
New York 10, Chicago 6, Los Angeles 11

WALKER-RACKLIFF CO.
19 Dickerman St., New Haven, Conn.

WELLS PUBLISHING CO.
252 Fort Lee Road, Leonia, N. J.

IRVING WELSTED
248 McKinley Ave., Syracuse, N. Y.

WESTINGHOUSE ELECTRIC CORP.
511 Wood St., Pittsburgh 30, Pa.

WILLIAMS IRON WORKS
430 East 102 St., New York 29, N. Y.

WILSON SPORTING GOODS CO.
2037 N. Campbell, Chicago 47, Ill.

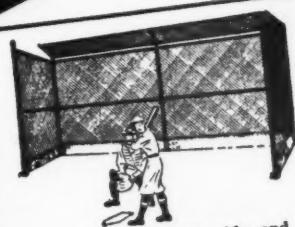
WYETH, INC.
1600 Arch St., Philadelphia, Pa.

STEWART FENCES AND METAL SPECIALTIES

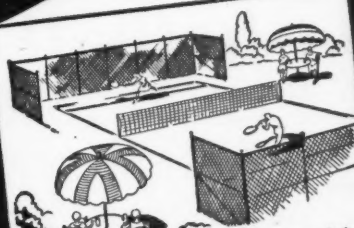
Stewart Fences and Metal Specialties meet virtually every school requirement. In addition to the products shown, there are such items as: window and skylight guards; wire mesh partitions, steel gates; flag poles, steel settees; bronze plaques and many others. If the products in which you are interested are made of iron, wire or bronze, it will pay you to write us.



Stewart Chain Link Wire Fence is available with or without barbed wire overhang arrangement. Style 3TH (three wires) is shown. Style 5TH has five wires at top, and 0TH, no wires.



Baseball Backstop is 20' wide and 12' high with a 10' wing set at an angle on either side. A 4' overhang at top deflects upbouncing balls.



Tennis Court Backstops and complete enclosures are available in heavy-weight construction only, and in one height, 12'.

When requesting information, please be sure to mention product in which you are especially interested.

The Stewart Iron Works Co., Inc.

1675 Stewart Block Cincinnati 1, Ohio

Experts in Metal Fabrications Since 1886

Stewart IRON
and WIRE
FENCES

Pick Your Coach and Coaching School

Use this guide to locate the schools at which your favorite college coaches will lecture. Complete information on these schools may be found in the Directory on page 55 of the May issue.

Football

- AIKEN, JIM**, Oregon—Oregon U.; Utah Coaches (adv. on p. 56).
- BELL, MATTY**, S.M.U.—Colorado Coaches (adv. on p. 59, May); Hot Springs; Louisiana Coaches (adv. on p. 48, April); Missouri U.; Oklahoma Coaches.
- BIERMAN, BERNIE**, Minnesota—Minnesota Coaches; Illinois St. Normal.
- BUTTS, WALLY**, Georgia—Eastern Penna. (adv. on p. 56, May); Georgia Coaches (adv. on p. 48); New Mexico (adv. on p. 58, May); Oregon U.
- CALDWELL, CHARLEY**, Princeton—Eastern Penna. (adv. on p. 56, May); Edinboro (adv. on p. 59, May); Bethany Coll. (adv. on p. 54).
- CHERRY, BLAIR**, Texas—Louisiana Coaches (adv. on p. 48, April).
- DONELLI, BUFF**, Boston U.—Springfield Coll. (adv. on p. 60).
- ELIOT, RAY**, Illinois—Murray St. (adv. on p. 48, April); New York St. (adv. on p. 58, May).
- ENGLE, RIP**, Brown—New York St. (adv. on p. 58, May).
- ENRIGHT, REX**, South Carolina—Edinboro (adv. on p. 59, May).
- FAUROT, DON**, Missouri—Alabama U.; Missouri U.; So. Illinois U.; Texas Coaches (adv. on p. 60).
- FESLER, WES**, Ohio St.—Ohio Football (adv. on p. 60); West Virginia U.
- HIGGINS, BOB**, Penn St.—Eastern Penna. (adv. on p. 56, May); Penn St. (adv. on p. 46, April).
- HOLCOMB, STU**, Purdue—Ohio Football (adv. on p. 60); Western Illinois St. (adv. on p. 63); Bethany Coll. (adv. on p. 54).
- JAMES, GEORGE**, Cornell—Connecticut U. (adv. on p. 57, May).
- LEAHY, FRANK**, Notre Dame—Colorado Coll. (adv. on p. 56, May); Georgia Coaches (adv. on p. 48); Hot Springs.
- MEYER, DUTCH**, T.C.U.—New Mexico (adv. on p. 58, May); Utah Coaches (adv. on p. 56).
- MUNGER, GEORGE**, Pennsylvania—New York St. (adv. on p. 58, May).
- MUNN, BIGGIE**, Michigan St.—Doane Coll. (adv. on p. 60); Michigan Upper Peninsula.
- MURRAY, FRANK**, Marquette—Ohio Football (adv. on p. 60).
- ODELL, HOWIE**, Washington—Doane Coll. (adv. on p. 60).
- SHIPKEY, TED**, Montana St.—Montana St. U. (adv. on p. 55, May).
- SNARELY, CARL**, North Carolina—Adams St. (adv. on p. 48, April); Connecticut U. (adv. on p. 57, May); Georgia Coaches (adv. on p. 48); North Carolina U.; South Carolina U.; Texas Coaches (adv. on p. 60); Bethany Coll. (adv. on p. 54); Virginia St.
- VALPEY, ART**, Harvard—Colby Coll. (adv. on p. 59, May).
- WALDORF, LYNN**, California—Adams St. (adv. on p. 48, April); Arizona Coaches (adv. on p. 48); California's Workshop; Rocky Mt. (adv. on p. 52).
- WILKINSON, BUD**, Oklahoma—Washington Coaches (adv. on p. 56, May).
- WILLIAMSON, IVY**, Wisconsin—Wisconsin Coaches (adv. on p. 58, May).

Basketball

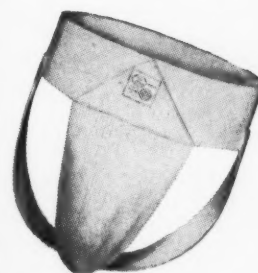
- BEE, CLAIR**, L.I.U.—Adams St. (adv. on p. 48, April); Hot Springs; Missouri U.; Utah Coaches (adv. on p. 56).
- CARNEVALE, BEN**, Navy—Eastern Penna. (adv. on p. 56, May).
- CASE, EVERETT N.**, North Carolina St.—Indiana Basketball (adv. on p. 56, May).
- COWLES, OZZIE**, Minnesota—Minnesota Coaches; Michigan Upper Peninsula.
- COX, FROSTY**, Colorado—Colorado U.; Washington Coaches (adv. on p. 56, May).
- DIDDLE, ED**, Western Kentucky—Louisiana Coaches (adv. on p. 48, April).
- FOSTER, BUD**, Wisconsin—Wisconsin Coaches (adv. on p. 58, May).
- HICKEY, ED**, St. Louis U.—Colorado Coaches (adv. on p. 59, May); Doane Coll. (adv. on p. 60); Murray St. (adv. on p. 48, April); Rocky Mt. (adv. on p. 52); Illinois St. Normal.
- HINKLE, TONY**, Butler—Indiana Basketball (adv. on p. 56, May).
- HOBSON, HOWARD**, Yale—Connecticut U. (adv. on p. 57, May); New York Basketball (adv. on p. 59, May); New York St. (adv. on p. 58, May).
- IBA, HANK**, Oklahoma A. & M.—New Mexico (adv. on p. 58, May); Southern Illinois U.; Texas Coaches (adv. on p. 60).
- KRAUSE, ED**, Notre Dame—Colorado Coll. (adv. on p. 56, May); Rocky Mt. (adv. on p. 52).
- LAWTHER, JOHN**, Penn St.—Penn St. (adv. on p. 46, April); Virginia St.; West Virginia U.
- PATTON, LEE**, West Virginia—South Carolina; West Virginia U.
- PETERSON, VADAL**, Utah—Adams St. (adv. on p. 48, April); Springfield Coll. (adv. on p. 60).
- RUPP, ADOLPH**, Kentucky—Colby Coll. (adv. on p. 59, May); Fremont (adv. on p. 57, May); Georgia Coaches (adv. on p. 48); Montana St. (adv. on p. 55, May); New Mexico (adv. on p. 58, May); New York St. (adv. on p. 58, May); Texas Coaches (adv. on p. 60); Wisconsin Coaches (adv. on p. 58, May).
- WELLS, CLIFF**, Tulane—Indiana Basketball (adv. on p. 56, May).



BIKE No. 10 SUPPORTER

Flexible form-fit knitted cotton and rayon pouch. Full lateral waistband stretch at seam. Edges selvaged to minimize rolling and curling. 3" waistband. 1 1/4" leg bands with inlaid rubber.

You Get All 3 When You Buy **BIKE!**



BIKE "STRAP" SUPPORTER

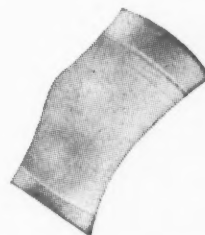
Woven all-elastic pouch. Crotch construction gives added comfort. 1 1/4" leg bands; 3" waistband. Joints reinforced so rubber end threads won't pull out!



BIKE No. 88 ANKLET

Extra soft, pliable and lightweight. No seams or welts to irritate foot or ankle. Strain points reinforced with extra covered rubber. Specially finished edges insure long wear.

1. You get designs that give maximum protection. Because for over 50 years, BIKE has worked closely with athletes themselves, designing garments to fit athletes' needs.
2. You get top-quality materials. BIKE has absolute control over all its manufacturing, covering its own rubber, weaving webbing, knitting pouches, making adhesive tape.
3. You get the finest workmanship. 50 years of manufacturing experience have given The Bike Web Company the "know how" to produce high-quality finished products.



BIKE No. 99 KNEE CAP

Specially finished top and bottom for extra-long wear. No seams, eliminates separation of rubber and fabric. Select cotton and rayon yarn and first grade covered rubber. Soft, comfortable, effective.



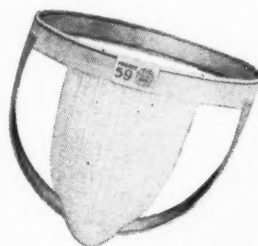
BIKE No. B-6 SUPPORTER

Made of sturdy leno weave elastic cotton webbing, provides maximum protection, assures comfortable fit. 6 3/4" waistband for extra support to back and abdomen. On Small size, pouch 6" wide—on Medium and Large size, 9".



BIKE TRAINERS' TAPE

Sticks fast, stays on, minimizes tape-irritation. Elastic mass permits skin movement, prevents excess tape "creep." Maximum adhesion at normal skin temperature, maximum resistance to climatic conditions, age and deterioration. Strips off roll easily.



BIKE No. 59 SWIM SUPPORTER

For light exercise, everyday wear. Specially constructed pouch makes it particularly suitable for swimming. Attachment of pouch to waistband allows full lateral stretch. 1 1/4" waistband, 1" leg bands.




BIKE No. 86 SUPPORTER

Made of high-quality long-stretch elastic throughout. Wide 6" waistband for extra support. One-piece woven all-elastic pouch 6" wide. 1 1/4" leg straps.

*Reg. U. S. Pat. Off.



Noon-Hour Intramurals

 MORE and more schools are coming to regard the noon hour as an integral part of the activity program—particularly in central rural communities, where most pupils are brought to school by bus and spend the entire day there.

The noon-hour problem is not so vital in the city schools, since a large percentage of the students go home for lunch. But even here, there are large numbers of students who remain in school during the noon hour.

Some schools stagger their lunch-hour schedules so that classes are held throughout the noon hour. Many schools, however, do not observe such a system, thus freeing a large number of students for some kind of activity.

The problem is: What to do with the students between the finish of lunch and the start of the afternoon classes? Some pupils might prefer to sit this recess out. But most boys and girls want activity and if the school won't provide it, they will seek out their own.

If we grant there is a need for something to occupy their time, who should be responsible for the administration of it? The answer is—the physical director. By nature of his training and experience, he is the one most qualified for the task of working out a program.

The easiest solution, and the one used much too often, is to merely toss out some balls, bats, and other game equipment, keep a first-aid kit handy, and hope for the best. This might keep the pupils busy, but its educational value is dubious.

Where the director is willing to devote some time to the organization of a program, it is possible to inculcate a wide range of activities that offer educational and recreational value varied enough to meet the needs of all ages and groups involved.

The first move in organizing a program is to check the grades that will be included, and what equipment and space will be available.

By **ROLAND F. ROSS**

ROXBURY (N. Y.) CENTRAL SCHOOL

The idea is to utilize all the available space all of the time.

As a rule, the lower grades will report first, closely followed by the upper grades and the high school pupils. It will be necessary, therefore, to divide the program into definite time periods.

It is also a good idea to design a program for both inside and outside. For example, a schedule of touch football for good weather and volleyball for rainy days will nicely take care of the high school boys.

At Roxbury Central School, we have developed a program which meets all the needs of the noon-hour period.

Our athletic facilities include a combined gym-auditorium and a

four-acre athletic field. The gym is 55 ft. by 66 ft., and the stage 24 ft. by 43 ft. Our bleachers, which seat 400, fold up against the wall, thus giving us practically the entire floor area for use.

The stage space is used for table tennis and other games requiring small areas.

For outdoor activity we utilize the entire four-acre field.

In our program, grades one and two do not come to the gym for noon games. They have activities in their homeroom during inclement weather, and use the swings, slides, etc., on the playground in fair weather.

Teachers assigned to noon duty on alternate weeks supervise these activities. The physical director merely helps in an advisory capacity.

Grades three to six inclusive report for their activities at 11:55. When outdoor activity is possible, the third and fourth grades join the first two grades on the playground, while grades five and six report to their assigned section of the athletic field for supervised games.

When an indoor program is necessitated, grades three to six stay in the gym from 11:55 to 12:15.

This group is divided into four groups for play, namely grades 3 and 4 boys; grades 3 and 4 girls; grades 5 and 6 boys; and grades 5 and 6 girls.

In organizing our indoor program, we stick to games that work well around a common play center. Games that require a great deal of space are avoided. We don't want play areas overlapping each other. This causes confusion and injuries.

Student assistants help administer these activities. We appoint two boys and two girls for a week at a time. A record of their time is kept on a school service card and counts as points toward their school letter. (See article in *Scholastic Coach*, February 1939, page 11.) These helpers are excused from class a few

(Concluded on page 56)

Sample Schedule Indoor Program

11:55 to 12:15

Grades 3-4 boys—Slap Jack
Grades 3-4 girls—New Orleans
Grades 5-6 boys—Tadpole
Grades 5-6 girls—Indian Club
Guard

12:15 to 12:45

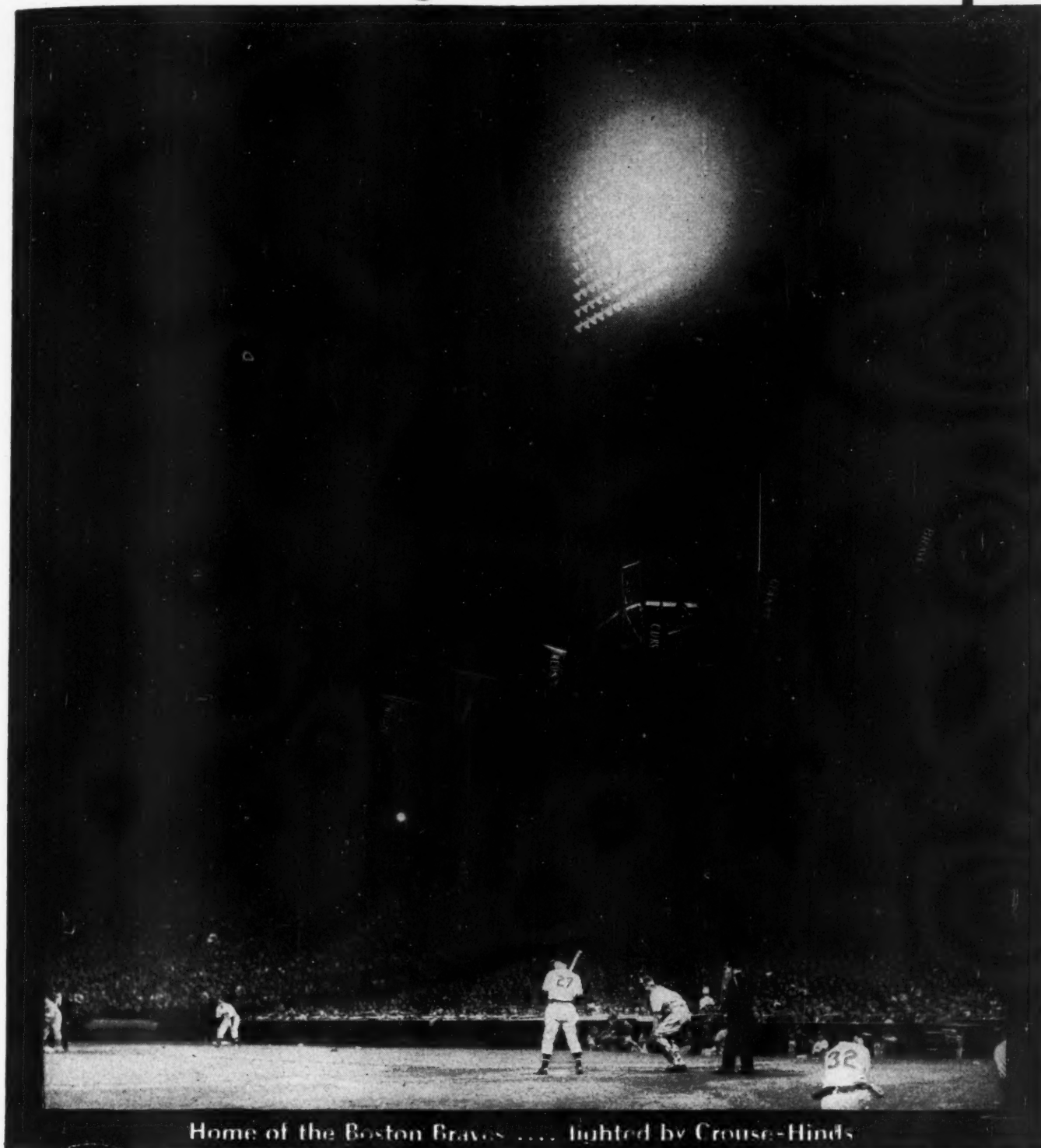
Grades 7-8 boys—Box Hockey
Table Tennis

Grades 7-8 girls—Miniature
Bowling
Table Tennis

High school boys—Volleyball
Table Tennis
doubles
Box Hockey
Checkers

High school girls—Badminton
doubles
Checkers
Shuffleboard
Table Tennis
doubles

The same lighting skill that plans the lighting
of huge stadiums is available to **YOU**



Home of the Boston Braves lighted by Crouse-Hinds



The lighting of an athletic field is a job that calls for the specialized skill of qualified illumination engineers. The Crouse-Hinds Illumination Department pioneered in the field of sports lighting, and over the years has accumulated a vast

amount of experience that is now available to YOU on any lighting job large or small. Send drawings and details, for recommendations on the selection and arrangement of floodlights for your field.

CROUSE-HINDS COMPANY

Syracuse 1, N. Y., U.S.A.

Offices: Birmingham — Boston — Buffalo — Chicago — Cincinnati — Cleveland — Dallas — Denver — Detroit — Houston — Kansas City — Los Angeles — Milwaukee — Minneapolis — New York
Philadelphia — Pittsburgh — Portland, Ore. — San Francisco — Seattle — St. Louis — Washington. Resident Sales Engineers: Albany — Atlanta — Charlotte — Indianapolis — New Orleans
CROUSE-HINDS COMPANY OF CANADA, LTD., Main Office and Plant: TORONTO, ONT.

CONDULITS · TRAFFIC SIGNALS · AIRPORT LIGHTING · STADIUM LIGHTS

STOP

KNEE AND ELBOW INJURIES!

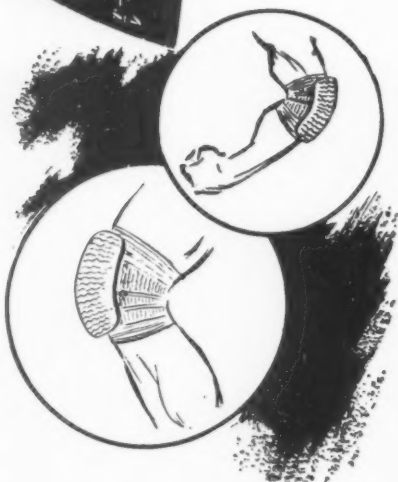
"Bub"

Duribilknit
PROTECTORS

KEEP YOUR
PLAYERS
PLAYING!

"Bub" Duribilknit Protectors safely cushion knees and elbows against shocks and bruises.

Millions of tiny, sealed, air cells give "Bub" Protectors their shock-absorbing resilience. That — plus same genuine surgical elastic construction used in world-famous "Bub" athletic supporters.



SHOCK-ABSORBING!

Seamless, knitted back for pinch-proof comfort! Slip-proof! Non-absorbent, washable. Available for your basketball teams in school-matching colors: Royal Blue, Gold, Kelly Green, Scarlet, Black.

Buy "Bub" Protectors at your sporting goods dealer

John B. Flaherty Co. Inc.
Established 1898

611 EAST 132nd STREET BRONX 54, NEW YORK

THE BEST TEAMS ARE BEST EQUIPPED!

Notre Dame's Quick Opener

(Continued from page 9)

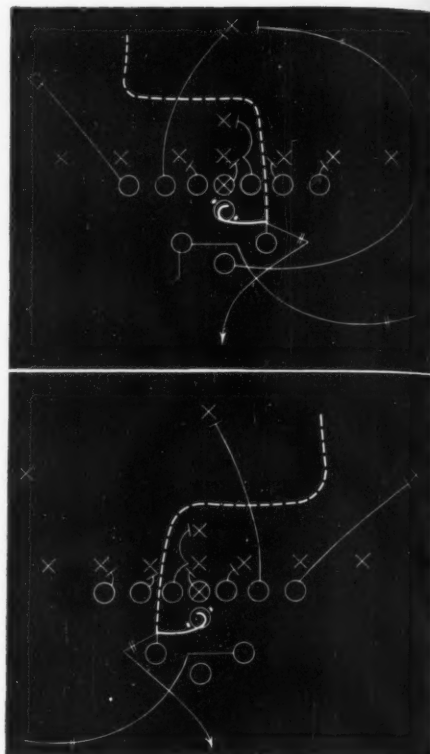
shoulder in the defensive left guard. He should continue to take short, digging steps until he is absolutely certain that the ball-carrier is well on his way. We instruct our men to be especially careful that the opponent does not roll away from them and bring the ball-carrier down from behind. If the guard makes a move, we want him to have to circle our tackle to his left, which will bring him into the backfield after the ball has left.

Our *right guard* hesitates for a split-second to allow the tackle to cross in front of him. Once the tackle is past, he moves over rapidly, giving the defensive tackle an inside head fake, and then blocking from the outside with his shoulder. He should keep bumping his man away from the line of fire. This type of block gives our guard a good opportunity to shake up this man and kill his appetite for the game. When that spirit is broken, touchdowns come easily.

The *center* has a man playing directly opposite him, and we ask him to block that man away from the hole. We want him to stick with his opponent for quite some time, since we usually find that man exceptionally aggressive.

As previously explained, the *left guard* double teams with the right end on the center linebacker. He should render all the assistance possible in order to get the job done more quickly.

Our *left tackle* lopes through for the safety man. He should not turn on his speed until the ball-carrier has



Diag. 5: Play 43 and 22 against a normal seven-man defensive setup.

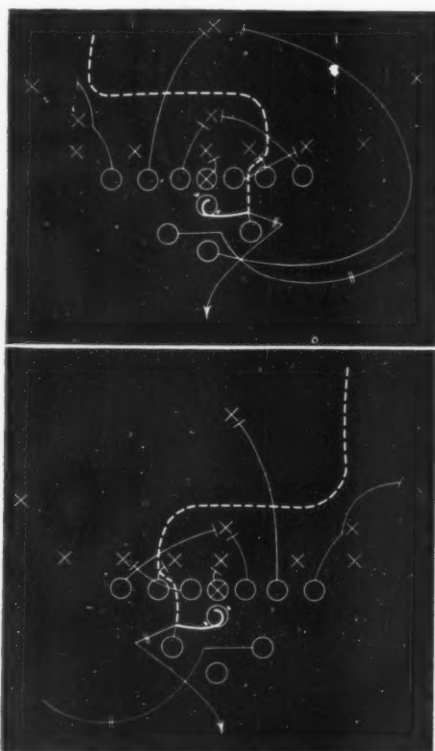
caught up with him. He should always try to keep about a step ahead of the man with the ball, and about three yards away from him.

He is joined in the downfield blocking by the *left end*, who first shoulder brushes the offside linebacker. Should this backer-up be exceptionally aggressive, we ask our end to stay with him as long as is necessary.

The activities of the *backfield men* do not change against this type of defense. However, we frequently have the quarterback send a flanker to the opposite side of the play.

When you do this, scrutinize the changes that are made in the defense. This often produces the break for which you have been waiting, especially if the right halfback is the mainstay of your offense. On a team where the left halfback is the No. 1 ball-carrier, play number "22" takes precedence over "43," but all of the foregoing suggestions hold true. We like to run both plays as often as possible to prevent the enemy from formulating a set defense.

Many times against an overshifted defense, we have found it easier for the *right end* to cross over and block the defensive guard in, and the *right tackle* to go through on the middle linebacker. This works out best when the opposing guard is playing directly on the head of the tackle. In this situation, it would be too difficult for the offensive tackle to assume a good angle; therefore, he just informs the end of the exchange of assignments



Diag. 4: Play 43 and 22 against a six-man line overshifted to right.

A safe way of treating "athlete's foot" . . .

Use Sopronol, hundreds and hundreds of case histories suggest.

Sopronol is physiologic. It utilizes the fatty acids found in human sweat (propionates and caprylates) to combat fungi just as nature does.

And because of this, Sopronol heals effectively and safely. Is virtually non-irritating, non-sensitizing, non-keratolytic.

Fight fungi physiologically . . . with Sopronol.

SOPRONOL® IMPROVED

Propionate-Caprylate Compound



OINTMENT	
Sodium propionate	12.3%
Propionic acid	2.7%
Sodium caprylate	10.0%
Zinc caprylate	5.0%
Diocetyl sodium sulfosuccinate	0.1%
Inert ingredients including n-Propyl Alcohol	69.9%
1 oz. tubes	

POWDER	
Calcium propionate	15.0%
Zinc propionate	5.0%
Zinc caprylate	5.0%
Inert ingredients	75.0%
2 and 5 oz. canisters	

LIQUID	
Sodium propionate	12.3%
Propionic acid	2.7%
Sodium caprylate	10.0%
Diocetyl sodium sulfosuccinate	0.1%
Inert ingredients including n-Propyl Alcohol	74.9%
2 oz. bottles	

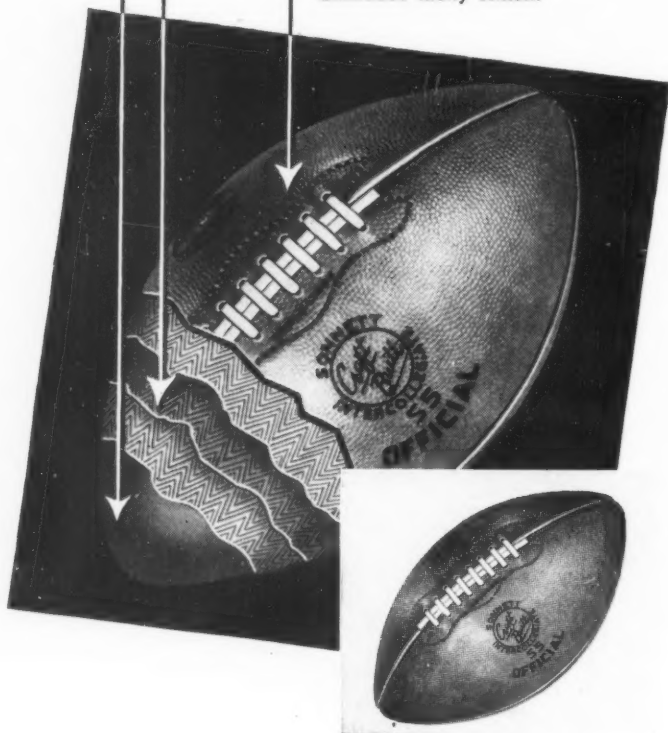
LOOKING for a better ball?

see the **NEW S5**
by **Craft Built**

One piece molded bladder with rubber "leak proof" valve. Specially molded to fit the ball.

Triple lined with finest heringbone twill fabric vulcanized with live rubber for lasting shape.

Finest selected top grain official football leather. Special aniline dyed. Has desirable tacky finish.



SEE this great ball for yourself. See it . . . feel it . . . compare it with others. Marvel at its outstanding design and fine workmanship. See why more and more schools are turning to the \$11.95 Craft Built S-5. It's a sensational value at



DIVISION

OHIO-KENTUCKY
MANUFACTURING CO.

106 LIBERTY STREET, ADA, OHIO

and the remaining players carry out their original duties. Cases like this have proved to us that the tackles are in the best position to call the blocking assignments. This is a far cry from the days when all that was required of a tackle was that he be big and strong.

"43" Against a Seven-Man Line: All things being equal, the quick-opener should work most successfully against a seven-man line. The reason for this is that with man-for-man blocking, each opponent in this defensive set-up is in a position where he can be blocked with the least difficulty.

It is against this defense that the timing must be most perfect, and if it is, you will find that it brings excellent results. We find that the men react more quickly against this defense because it is much easier to recognize. The individual assignments are simple and a brief outline should clarify all duties (Diag. 5).

The *right end* blocks the defensive tackle away from the hole, while the *right tackle* is driving the opposing guard in the same direction. The tackle should make certain that he gets a good angle when the quarterback calls "Down," since once he has the angle he will not have much trouble moving the man out. A shoulder block should be applied, and we ask him to stay with the man long enough to allow the ball-carrier to get far down the field.

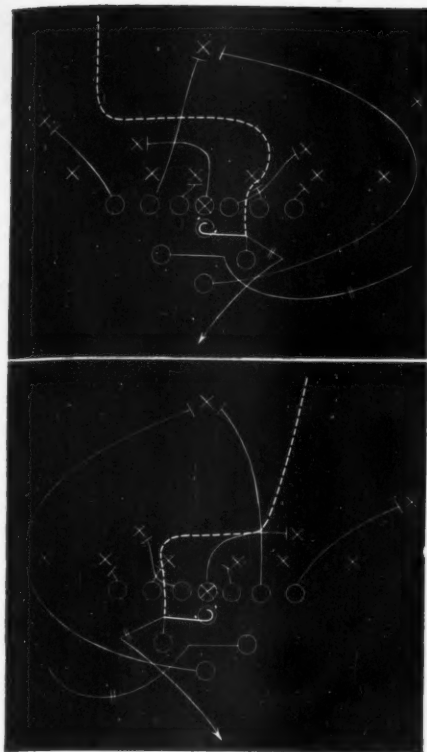
The key blocker is the *right guard*. He should make a very hard fake at the defensive center, then circle the linebacker and drive him back and away from the hole. A quick-starting, hard-driving guard can make this play a "breadwinner" against a seven-man line. His fake should make the enemy center an easy target for our pivot man, who blocks him with his left shoulder.

The *left guard's* duty is to see that the opposing guard has to pass on his left if he wants to get into our backfield. If he does this, enough time will elapse to allow the ball-carrier to be on his way.

The *left end* and *left tackle* are once again called upon for the downfield blocking; however, we do ask them to scuffle with the opposing linemen long enough to prevent them from pulling out and catching up with the runner. If the line appears too tight to open a hole, we usually spread our onside end, which will cause the defense to expand.

"43" Against a Slanting Six-Man Line: The sixth type of defense we frequently look at on a Saturday afternoon is what appears to be a normal six-man line, but which, as the signals are being called, slants to such an extent that it would be impossible for our linemen to do a satisfactory blocking job.

It took a long time to solve this because we had difficulty in locating just where the men were. After running through our movies a number of times, we analyzed the defense as shown in Diag. 6, and since then we have had considerable success with our block-



Diag. 6: Play 43 and 22 against a slanting six-man enemy alignment.

ing tactics. We have given this defense a code name, and when our opponents slide into it during a game, our tackle simply announces that name and the men automatically go about their business.

The *right end* has an assignment that is entirely dependent upon the position he assumes in the line. His job is to block the defensive tackle away from the hole—his best approach is to allow the man to step across the line, then to force his shoulder into him and keep him moving in the desired direction.

The *right tackle* must block the on-side guard completely out of the hole before the back comes roaring through. A good block by this man is the makings of a successful play.

Our *right guard* has the all-important task of riding the on-side line-backer away from the hole. He crosses over immediately after the tackle moves, and maneuvers himself behind the backer-up. We do not allow him to circle his own tackle, but we want him to cross over exactly where the tackle lined up. He should make extensive use of the head fake because the defensive man has a good opportunity to see him coming.

The *center* sprints through for about five yards before cutting back to employ the element of surprise in blocking the offside linebacker. When the play is past, the center should release his block and go goalward.

Our *left guard* blocks the man on his head away from the hole while the remaining members of the team carry out the same assignments as given against a normal six-man line.

We suggest that coaches pay particular attention to this defense. If they install some plan for coping with

LEADING TEAMS & ATHLETES USE & ENDORSE HODGMAN ATHLETIC CLOTHING

YOUR TEAMS DESERVE THE FINEST

Buy them Hodgman



THE PROFESSIONAL NEW YORK FOOTBALL GIANTS WEAR HODGMAN REDUCING SHIRTS.

JOE DOBSON—STAR PITCHER OF THE BOSTON RED SOX.



RALPH BRANCA—STAR PITCHER OF THE BROOKLYN DODGERS.



REDUCING SHIRTS by Hodgman — Worn in place of old fashioned sweat shirts. This lightweight shirt is specially designed to keep heat in and cold air out, thereby removing the possibility of chills and consequent soreness which plagues conditioning athletes. Cut like a shirt with drawstring at neck and elastic at wrists. Cut extra full for freedom of movement.

WARMUP JACKETS by Hodgman — A lightweight, windproof jacket for quick "warm-up" in sports of all kinds. Gets player warm, keeps him warm but does not cause excessive perspiration. Made from genuine Nylon with a thin coating of Neoprene which contains no rubber. Zipper front. Pleated back provides 6" of extra fullness.



HOODED CAPES by Hodgman — These warm and windproof capes have been designed for free substitution play, to permit players to get in and out of game quickly. Made of waterproof, extra strong vat dyed rubberized fabric doubled to a blanket lining material. Fully cut. Variety of colors.



SIDELINE PARKAS by Hodgman — Made to meet requirements of school, college and professional teams. Durable made of extra strong, vat dyed rubberized fabric doubled to a heavy blanket lining. Fully cut with large skirt to give leg warmth when seated. Large slash pockets, nicked-rustproof buckles in front.



WRITE FOR NEW ATHLETIC CATALOG

HODGMAN RUBBER COMPANY

Framingham, Mass.

Arizona High School Coaches Association Coaching School

Flagstaff, Ariz. Aug. 15-20

★ LYNN WALDORF, U. of Calif.

Football

★ BOB WINSLOW, U. of Ariz.

Football

★ FRED ENKE, Sr., U. of Ariz.

Basketball

★ J. F. McKALE, U. of Ariz.

Baseball

★ DON KINZLE, Arizona State

Track

★ EMIL LARSON, Border Conference

Training of Officials

★ FRANK CRAMER

★ ROLAND LOGAN

Training

... plus All-Star Basketball and Football Games; free rooms; all-week entertainment for coaches' wives; nursery school for children; golf tourney.

Tuition: \$10, state members

\$15, state non-members

\$20, out-of-state

NICK RAGUS, Director

Arizona St. College Flagstaff, Ariz.

Twelfth Annual COACHING CLINIC

Sponsored by

Georgia Coaches Assn.

and The Atlanta Journal

Aug. 15-20 Atlanta, Ga.

Football (Aug. 17-20)

- Frank Leahy, Notre Dame
- Carl Snively, No. Carolina
- Wally Butts, Georgia
- Bill Hartman, Georgia
- Shorty Doyal, Marist
- C. M. Page, Glynn Academy

ALL-STAR GAME—Aug. 19

Basketball (Aug. 15-16)

- Adolph Rupp, Kentucky
- Roy Rowlett, Brown H.S.
- Glynn Sowell, Albany H.S.

ALL-STAR GAME—Aug. 17

Tuition

G.A.C.A. Members—Free
Non-Members—\$10 for either
session or \$15 for both

For information write:

DWIGHT KEITH
115 Walton Street, N.W.
Atlanta, Georgia

such variations, they will have a weapon that can be much more potent than anything formulated against a positive defense, without allowing for slight changes. A code word should be agreed upon to cover such a slanting set-up.

Plays "43" and "22" are to the "T" formation what a left jab is to a boxer; that is, the first sturdy stone of a solid foundation. Without these plays, you do not have the "T" in its true form. Some of the things that we have found to contribute a great deal to the success of these plays are given here.

We notice that if our linemen can possibly block high without interfering with their effectiveness, it adds to the deception. The actions of a good quarterback are hard to follow under any conditions, but they are much more confusing if the opponent is trying to analyze them through a 220-pound lineman. We do not ask our key blockers to worry about concealing the backs, but we do like to have our offense linemen come up fast to screen the activities behind the line.

The guards must be exceptionally careful not to step back even one inch or they will interfere with the quarterback's pivot. This must be doubly guarded against when the guard is pulling to do some cross-blocking. This is a common tendency among linemen, but if properly trained, they will overcome it.

The right halfback is the principal man on the play, and it is absolutely essential that he and the quarterback work together without a flaw. He should take the ball on his left side, right at the hip, as he is striding forward with his right foot. The reason that his left leg must be back is to allow the quarterback to lay the ball

in the pocket without the pocket forcing itself upon the ball.

Right halfbacks should practice taking the ball with just their left hand, and when they can do this at full speed, they should start using both hands. This will give them confidence in their ability to receive the ball. We have found that whenever a fumble occurs on this play, it is usually due to the fact that the halfback starts reaching for the ball, or he is coming in too low. He must stand high enough to form a good pocket for the quarterback to find.

When new linemen are assigned to block downfield, they want to get right down there and obliterate the defensive backs. This is an admirable trait, but too often they head downfield while many opponents are still standing near the line of scrimmage. We tell our men never to pass up an opponent unless he is on his back. Such plays as these were not devised to score a touchdown every time they are called; therefore, the blockers must clear the field step by step.

We drill our tackles on the blocking calls by putting them in a room with a blackboard and asking them to turn their backs to the board. We then sketch all types of defenses on the board and call a tackle by name. As soon as he turns, we point to one of the defenses and ask that he call the blocking assignment just as quickly as possible.

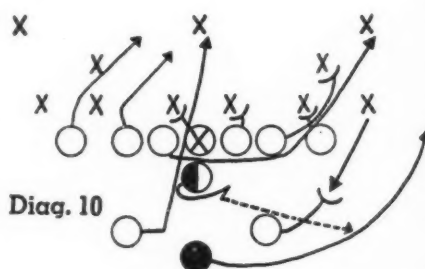
You will notice that many coaches are now using different tackles on offense than they use on defense, and it is our belief that their offensive tackle is the quicker thinker of the two. This should be a daily routine, taking only about ten minutes. Do not let the men tire of such a drill.

Outside Attack from the Straight T

(Continued from page 18)

repeat this down-the-slot thrust several times while setting up the climax thrust to the outside. On these over-guard strikes, the alternating of trap-blocking with the straight blocking shown in the preceding diagram is very effective in increasing the down-the-center threat, and consequently in setting matters up for the delayed toss after a fake-toss and simulated hand-off (Diag. 10).

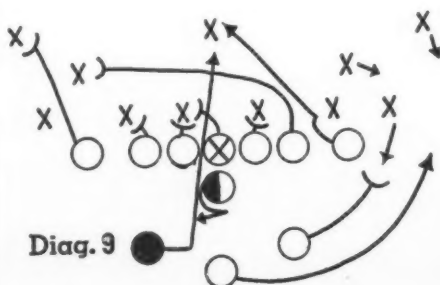
On this particular variation, the fullback swings a bit deeper than he



Diag. 10

usually does on similar tosses. As a result, he is actually moving forward and up the field when he takes the lateral. The quarter makes a fast spin, fakes the initial toss, whips back and fakes the hand-off to the left half, then zips the ball to the full.

The foregoing are the major patterns of wide attack from the plain T. All of them have numerous variations in regard to possible arrangements of blocking assignments, modifications of execution, and types of backfield faking.



Diag. 9

Coaches! here's how your baseball team can get **NEW EQUIPMENT** at tremendous savings!



**Sensational, moneysaving
"Post's Cereals Team Plan"
brings you professional
WILSON and SPALDING
baseball equipment . . .**

(All your team players can easily "gang up" in saving the required box tops. Families, friends, neighbors—all will help collect 'em fast!)

Sponsored by

Post's Cereals

Products of General Foods







\$159.25 list value Wilson and Spalding baseball equipment for only \$48.48 (plus box tops)!*

Here's an example of the Post Plan in action:
All official Wilson and Spalding Team Equipment!

ITEM	RETAIL VALUE
Set of (3) Spalding Duck Cover Bases	\$15.60
(1) Wilson Home Plate	17.25
(1) Wilson Pitcher's Box	10.50
(1) Wilson Catcher's Mitt	12.00
(4) Wilson Fielders' Gloves	20.00
(6) Spalding Autograph Bats	20.10
(1) Wilson Body Protector	11.00
(1) Set Spalding Leg Guards	8.85 pr.
(1) Wilson 1st Base Mitt	10.35
(12) Spalding Official N. L. Baseballs	33.60
Total Retail Value	\$159.25
Your Post "Team Plan" Price	only . . . \$48.48

**Plus 1616 tops from Post's Cereal packages*

**SEND FOR
FREE CATALOG
TODAY**

Post's Cereals, Department T
Battle Creek, Michigan

Gentlemen:

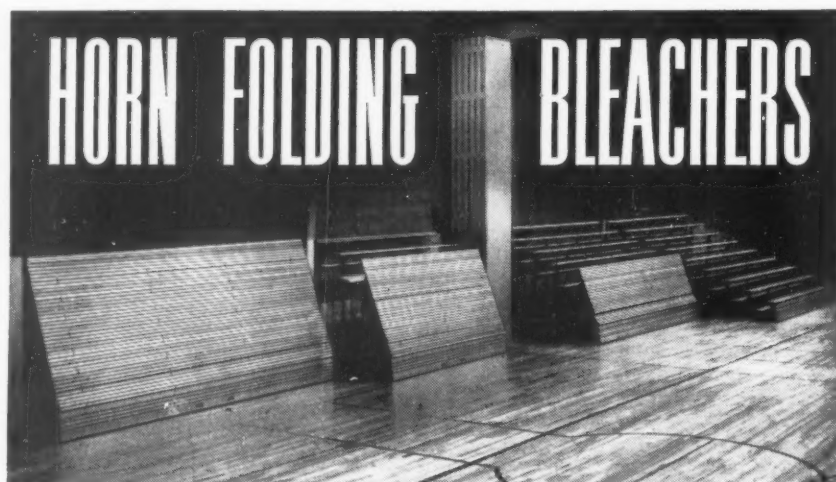
Please rush my "TEAM PLAN" catalog giving complete details on how to get baseball bargains!

NAME _____

STREET _____

CITY _____ STATE _____

OFFER GOOD IN U. S. A. ONLY This offer expires December 31, 1950



HORN FOLDING BLEACHERS AND HORN FOLDING PARTITIONS FOR GREATER SPACE UTILIZATION

Check
Your
Space
Require-
ments

ROWS	FLOOR SPACE		**HEIGHT
	IN USE	*CLOSED	
3	4 Ft. 9 In.	1 Ft. 8 3/4 In.	3 Ft. 0 In.
4	6 Ft. 7 In.	2 Ft. 0 1/2 In.	3 Ft. 9 In.
5	8 Ft. 5 In.	2 Ft. 3 1/2 In.	4 Ft. 6 In.
6	10 Ft. 3 In.	2 Ft. 6 1/2 In.	5 Ft. 3 In.
7	12 Ft. 1 In.	2 Ft. 10 1/4 In.	6 Ft. 0 In.
8	13 Ft. 11 In.	3 Ft. 1 1/2 In.	6 Ft. 9 In.
9	15 Ft. 9 In.	3 Ft. 5 In.	7 Ft. 6 In.
10	17 Ft. 7 In.	3 Ft. 8 3/4 In.	8 Ft. 3 In.
11	19 Ft. 5 In.	3 Ft. 11 3/4 In.	9 Ft. 0 In.
12	21 Ft. 3 In.	4 Ft. 3 1/2 In.	9 Ft. 9 In.
13	23 Ft. 1 In.	4 Ft. 6 1/2 In.	10 Ft. 6 In.
14	24 Ft. 11 In.	4 Ft. 9 1/2 In.	11 Ft. 3 In.
15	26 Ft. 9 In.	5 Ft. 1 1/4 In.	12 Ft. 0 In.
16	28 Ft. 7 In.	5 Ft. 4 1/2 In.	12 Ft. 9 In.
17	30 Ft. 5 In.	5 Ft. 8 In.	13 Ft. 6 In.
18	32 Ft. 3 In.	5 Ft. 11 3/4 In.	14 Ft. 3 In.
19	34 Ft. 1 In.	6 Ft. 2 3/4 In.	15 Ft. 0 In.
20	35 Ft. 11 In.	6 Ft. 6 1/2 In.	15 Ft. 9 In.

*Dimension includes 4 1/2 in. space between top seat and wall.

**Height in open position same as closed. For Bleachers higher than 20 Rows write for complete details and dimensions.

For seating capacity figure 16" per person.
Write for complete details on the "3 in 1
Horn Gym Plan." No obligation.

HORN BROTHERS CO.

A DIVISION OF HORN INDUSTRIES

FORT DODGE, IOWA



ESTABLISHED 1909

Practice Devices

(Continued from page 20)

straight-grained planks should be used for the charging surfaces. This pays in the long run, as it eliminates constant repairs. The wheel-support timbers should be cut from lumber free from imperfections. A good grade of pine is recommended.

The wheels may be made of glued segments of hardwood turned to size on a lathe. The center of the wheel might be reinforced with a bushing or a piece of pipe whose diameter is a trifle greater than the diameter of the axle.

The springs may be purchased and should be made of heavy steel spring wire. Many auto-parts stores carry such springs in stock.

The materials for the charging machine include:

Wood

8 pieces 1 1/2 in. x 10 in. x 5 1/2 ft. for charging surfaces.

2 pieces 8 in. x 8 in. x 7 ft. for wheel-support timbers.

2 pieces 2 in. x 8 in. x 7 ft. for intermediate timbers.

1 piece 4 in. x 8 in. x 7 ft. for center timber.

3 pieces 4 in. x 6 in. x 5 1/4 ft. for frame uprights.

4 pieces 2 in. x 8 in. x 8 ft. for charging-surface braces.

2 pieces 2 in. x 11 in. x 14 1/2 ft. for timber spacers.

2 pieces 2 in. x 11 in. x 9 ft. for diagonal braces.

1 piece 2 in. x 6 in. x 16 ft. for spring span supports.

1 piece 2 in. x 8 in. x 16 ft. for upper horizontal spacer.

1 piece 2 in. x 4 in. x 16 ft. for intermediate horizontal spacer.

Metal and Hardware

8 pieces sheet metal 1/4 x 6 x 16 in. for wheel support plates.

4 wheels, 10 in. diameter, 7 1/2 in. thickness.

14 heavy springs, 6 in. span.

4 steel axles, 1/2 x 9 1/2 in., for wheels.

14 squarehead bolts (threaded), 1/2 x 11 in., and nuts for spring span supports.

14 squarehead bolts (threaded), 3/8 x 7 in., and nuts for upper braces.

24 lag screws, 3/8 x 2 1/2 in., for wheel-support plates.

36 or more 1/4 x 2 1/2 in. lag screws for body bracing.

12 squarehead bolts (threaded), 1/4 x 4 1/2 in., and nuts for frame uprights.

6 squarehead bolts (threaded), 1/4 x 7 in., and nuts for frame uprights.

Plan of assembling. Bolt the timber spacers to the two wheel-support timbers. Be sure that the timbers are square to each other at point of overlap. Next, bolt into place with lag screws, the two intermediate timbers together with the center timber.



IN 1948 CASTELLO EQUIPPED THE
U. S. OLYMPIC TEAM!

CASTELLO
is standard for
FENCING EQUIPMENT

Our new, 1949 CATALOGUE

Richly Illustrated

JUST OFF THE PRESS

contains an exhaustive list of masks, weapons and other fencing accessories. It also explains a great deal about fencing and the different weapons. THIS CATALOGUE is indispensable to directors of athletics and coaches.

See your local sporting goods dealer or write to

CASTELLO FENCING EQUIPMENT CO., INC.
America's Oldest and Largest Importer and
Manufacturer
332 East 9th Street New York, N. Y.
GRAMERCY 7-5790

It is advisable to use washers on all screws. Holes to break grain should also be drilled into the interlocking timbers before inserting the lag screws.

The next step is to attach the wheels on the wheel-support timbers by means of bolting on the iron plates as shown in the end view of the sketch. In the setting up of the three frame uprights, care must be taken that the angle of the forward lean remains the same. The four charging-surface braces should all be cut from one pattern and then clamped to their respective places before bolting. Another accurate check for evenness should be made, followed by bolting together at indicated points.

The spring span support timber and the upper horizontal spacer are next bolted into place, as shown in the end view. Note the angle of the lower edge of the intermediate spacer. This is for the purpose of furnishing more resistance when force is applied against the charging surfaces.

SPACING OF SURFACES

A very important step is the spacing of the charging surfaces, which are held up at the top by means of fourteen $\frac{3}{8}$ x 7 in. squarehead bolts. These bolts should not be drawn too tight. There must be a give at these points in order to allow the charging surfaces to sway slightly inward.

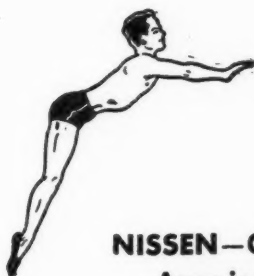
Fourteen $\frac{1}{2}$ x 11 in. squarehead bolts support the lower ends of the charging surfaces. These bolts pass through the center of the springs and on through the spring span support, where they are held in place by washer and nuts.

Padding the charging surfaces is very simple. Layers of felt padding are tied in place and then covered with canvas material, which is held fast by upholstering tacks driven into the edges of the boards.

The last step is to give the machine at least two good coats of paint. This will preserve it against all weather conditions. Axle grease should be applied to the wheels before the machine is used.

As you may note in the blueprint on page 20, the machine is built so that there is some give to the blocking surfaces. This is a much better arrangement than the ordinary rigid type of machine, since it enables the players to hit harder without danger of injury.

The machine should be heavy enough to provide considerable resistance to the charging players. Any school shop can construct such a machine by studying the drawing.

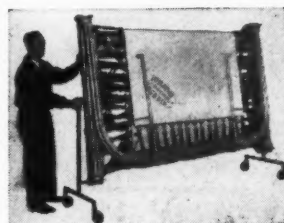


Boost Gym Interest to New Heights with TRAMPOLINING

By NISSEN

NISSEN—Creator of America's First Standard TRAMPOLINE*

founded the active, bounding sport of TRAMPOLINING

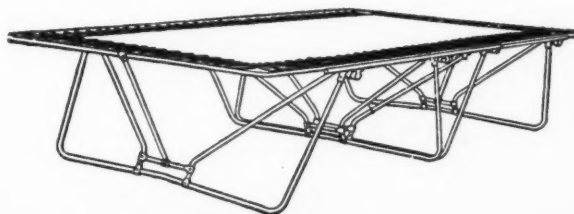


EXCLUSIVELY NISSEN
Flashfold 48-T TRAMPOLINE
Lighter—Larger
ONE MAN FOLDS IT! ONE MINUTE DOES IT!

Nissen Trampolines trained World War II flyers and paratroops. Nissen Trampolines have won thousands of fans in AAU-sanctioned gym competitions and in university, college, high school and Y ranks. **WRITE FOR FREE LITERATURE and PRICES.**

NISSEN TRAMPOLINE

200 A Avenue NW Cedar Rapids, Iowa



Indoor and Outdoor Models

*Name TRAMPOLINE Reg. U. S. Pat. Off.

You'll LIKE Powers

QUALITY ATHLETIC WEAR

● Only the finest NAME flannels, cottons, and satins go into **POWERS** Baseball and Softball Uniforms to make styles for champions. **BUY POWERS** for APPEARANCE, TAILORING, and WEAR. Write for new 1949 Spring and Summer Catalog.

THE POWERS MANUFACTURING CO.
WATERLOO, IOWA



ROCKY MOUNTAIN

Summer

COACHING SCHOOL

BILLINGS MONTANA

JULY 18th-23rd

Instructors

FOOTBALL

LYNN WALDORF
CALIFORNIA

WALDO FISHER
NORTHWESTERN

BASKETBALL

EDDIE HICKEY
ST. LOUIS

ED "MOOSE" KRAUSE
NOTRE DAME

TRAINING

FRANK CRAMER

- ★ LECTURES
- ★ DEMONSTRATION
- ★ MOVIES

Bring the Ladies

SOCIALS ENTERTAINMENT

YELLOWSTONE PARK
MOUNTAINS and
Excellent TROUT FISHING
are near at hand

TUITION . . . \$25

Room and Board at College
Dormitory \$15.00 total

COLLEGE CREDIT
GRANTED

Sponsored by

MIDLAND ROUNDTABLE

BILLINGS MONTANA

For registration, information, write

HERB J. KLINDT
Athletic Director

ROCKY MOUNTAIN COLLEGE
BILLINGS MONTANA

New Books on the Sport Shelf

- **THE ORGANIZATION AND ADMINISTRATION OF INTRAMURAL SPORTS.** By Louis E. Means. Pp. 442. Illustrated—photographs and tables. St. Louis: The C. V. Mosby Co. \$5.75.

AS professor of physical education and director of the division of physical education and intramural sports at the U. of Nebraska, Louis E. Means has had an unusually excellent opportunity to observe, sift, and practice the elements of modern-day intramurals; and his book clearly evidences the working of a keen, imaginative, progressive, and practical mind.

It is truly a prodigious text, probably one of the two or three best books of its kind ever published. Into its 442 pages, Professor Means has compounded all the ABC's of intramurals.

He presents the background of the movement, all the current practices that are workable and effective, and implications for future planning. His suggestions are gleaned from all kinds of schools from every part of the nation and Canada.

The scope of the text is graphically indicated by the 19 chapter headings:

Historical background, philosophy and objectives, administrative problems and responsibilities, organization of units for competition, planning time, program of activities, point systems, awards, rules and regulations, the noon-hour program, organization for competition, girls program, co-recreational activities, financing the program, extramural athletics, expanding the outdoor program, community relationships and participation, motivation and promotion, and practical aids and suggestions to facilitate competition.

In addition, there is a section outlining the field and court diagrams of every sport and another chapter offering a superlative selected bibliography.

The illustrations are excellent, the writing superb, and the organization impeccable. It is a tremendous contribution to the field.

- **THE DICTIONARY OF SPORTS.** Edited and prepared by Parke Cummings. Pp. 572. Illustrated—drawings and charts. New York: A. S. Barnes and Co. \$7.50.

THIS book is a trailblazer—the first comprehensive dictionary of sports terms ever published. Written by one of the nation's better free-lance sports-writers, it is exactly 572 pages long and covers about 80 sports from Angling to Wrestling.

All in all, the text defines about 9,000 terms ranging from "abaft" (nautical. Toward the stern of a boat.) to "Zulu" (angling. An artificial fly. Tag: gold, tail: red; body: peacock herl; hackle: black).

The definitions are clearly and accurately projected, and supplemented here and there with interesting drawings. The book also contains an unusual appendix of terms classified by sport; box scores, tournament procedure, and summaries and charts.

It should prove a comprehensive, completely trustworthy guide for everybody who writes, reads, coaches, or merely talks about sports.

- **BEST SPORTS STORIES—1949.** Edited by Irving T. Marsh and Edward Ehre. Pp. 368. Illustrated. New York: E. P. Dutton & Co. \$3.

THIS collection of super stories and photos makes exciting reading and the editors and judges rate a loud locomotive for a fine job of assemblage.

The Best News Story Award was presented to Jesse Abramson for "Middle Miracle," a thrilling account of the Army-Navy game that ended in a 21-21 tie.

The award for the Best News-Feature Story was given to Maxwell Stiles for his story, "The Ghost of Wembley," relating Bob Mathias' victory in the Olympic decathlon. And for the Best Magazine Feature, the palm went to Jimmy Cannon for his "Club Fighter."

The book also features 38 other stirring sports stories, 30 stunning sports photos, a compact summary entitled "Year's Review," the champions of 1948 in 59 sports, and the 1948 Olympic champions.

- **TEACHING POSTURE AND BODY MECHANICS.** By Ellen Davis Kelly. Pp. 212. Illustrated—photographs and diagrams. New York: A. S. Barnes and Co. \$3.75.

INTENDED for teachers, doctors, and parents, this text describes the standards of body mechanics and the activities through which they may be taught to children of all ages.

The book is organized in three main bodies—the importance of good body mechanics, planning the posture emphasis, and posture and body mechanics activities.

For the physical education teacher, there is a preventive program adapted to typical school situations. For elementary teachers and parents, the non-technical presentation and the space, age, and sex indexing of games, stunts, and exercises will facilitate selection of suitable activities for various situations.

The health and physical education supervisor will find the text particularly valuable for the needed in-service training of teachers. A section devoted to the organization and administrative aspects of the preventive and corrective aspects of the program considers examinations and records, integration with school medical services, home-school-community cooperation, and



Spring Again...Clean-up Time

HILLYARD TIME SAVING METHODS GIVE GREATER ECONOMIES

★ **HILLYARD'S** Hi-Quality Products will greatly reduce your labor costs during the Spring and Summer Clean-up. Hillyard products are designed to do the work. Their quality is supreme.

★ **STAR GYM FINISH**—contains 100% Tung Oil, blended with an entirely new fortified resin. Does not darken the floor. Long-lasting. Withstands immersing for two hours in boiling water. Its toughness has never been excelled.



NO JOB TOO LARGE OR TOO SMALL FOR HILLYARD MAINTAINERS

★ **SHINE-ALL**—a neutral chemical cleaner that dissolves dirt and grime quickly. Cleans floors, walls, woodwork, painted and enameled surfaces efficiently. Does not have to be rinsed.

★ **KURL-OFF**—this revolutionary new varnish and paint remover is non-inflammable, and contains no alkali, mineral acids, water or other ingredients which might be harmful to the floor surface. Lifts varnish film almost immediately upon application. KURL-OFF requires no after rinse. It is non-corrosive.



There is a "Maintainer" near you. His advice and recommendations on any floor or sanitation problem are given without obligation or cost.



HILLYARD SALES COMPANIES

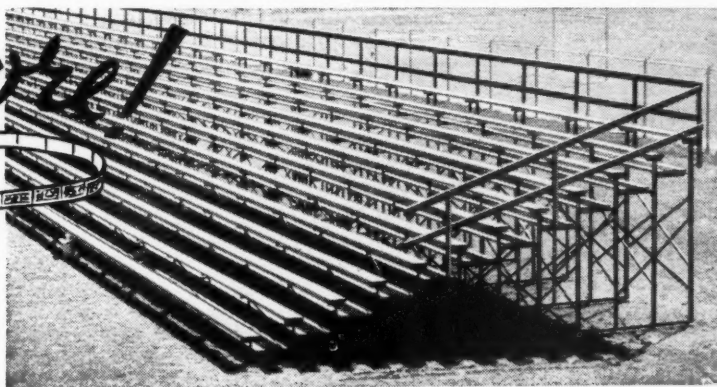
470 Alabama St.
San Francisco 10, Calif.

DISTRIBUTORS HILLYARD CHEMICAL CO. ST. JOSEPH, MO. BRANCHES IN PRINCIPAL CITIES

1947 BROADWAY,
NEW YORK 23, N. Y.

Only 3 more!

**CAN YOU SEAT YOUR
CAPACITY CROWDS AFTER
THE TICKETS ARE SOLD?**



There's only 3 more months before the '49 football season opens. Will you have enough seats for overflow crowds? You can still get your Universal Steel Grandstands in time for opening day. Select your needs from table below or specify space measurements or number of extra seats you'll need. We'll send an estimate of their cost. Use the coupon, NOW!

(PORTABLE WOOD BLEACHERS ARE ALSO AVAILABLE—NOW.)

TABLE OF SEATING CAPACITIES

PLAN	LENGTH	ROWS HIGH	CAPACITY
No. 1	90'0"	8	520
No. 2	138'0"	10	1000
No. 3	198'0"	10	1430
No. 4	234'0"	12	2028

**SEND US
YOUR
INQUIRY
FOR
PRICES
NOW!**

Engineering Dept.
UNIVERSAL BLEACHER COMPANY
Champaign, Ill.

Without obligation to me, send a cost estimate on Plan No. _____. Our space measurements are _____. We need seats for _____ persons.

Name _____
Address _____
City - State _____

**Universal
BLEACHER COMPANY**

Bleacher Experts for Over 30 Years

Fourth Annual Bethany College Coaching School

Aug. 15-19 Bethany, W. Va.

STAFF

ARTHUR "SLICK" MORTON

MISSISSIPPI STATE

CHARLES CALDWELL, JR.

PRINCETON

GEORGE SAUER

NAVY

STU HOLCOMB

PURDUE

CARL SNAVELY

NORTH CAROLINA U.

• • • • •

OHIO-WEST VIRGINIA ALL-STAR FOOTBALL GAME

NIGHT OF AUGUST 19

• • • • •

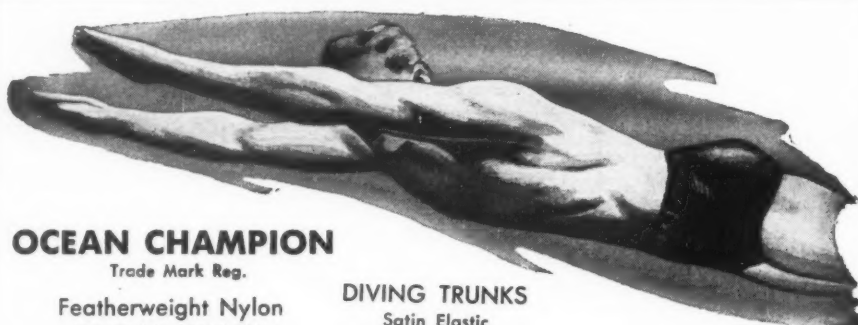
TUITION \$15.00

BOARD AND ROOM \$15.00

*Family Accommodations Available
For Information or Reservation Write*



**John Knight, Director
Bethany College
Bethany, West Virginia**



OCEAN CHAMPION

Trade Mark Reg.

Featherweight Nylon
RACING TRUNKS
Black, Royal, Scarlet
\$30.00 a Dozen

DIVING TRUNKS
Satin Elastic
White, Royal, Maroon
No Pockets or Loops
\$30.00 a Dozen

TERRY ROBES
White S-M-L—\$6.00 Each

OCEAN POOL SUPPLY CO., 1140 BROADWAY, NEW YORK CITY 1

the personal and professional requirements of the specialist.

The book is nicely organized, fully illustrated, and simply and graphically written.

- **KNOW THE GAME** (*The Laws of Association Football*). Prepared by The Football Association, London. Pp. 48. Illustrated—drawings and diagrams. New York: Soccer Associates. 75¢.

THIS little handbook, prepared by The Football Association (England), presents the rules of soccer in an exceptionally attractive and digestible fashion.

Organized along three broad lines (facilities and equipment, laws of play, and control of the game), it covers all the basic rules with crystal clarity, and illustrates practically everything with unusually attractive diagrams and drawings in color.

Inasmuch as the stress is on the more frequently misunderstood situations, the book should definitely serve to encourage players and spectators to take a keener and more intelligent interest in the technical side of the game.

Copies may be purchased through Soccer Associates, 10 Overlook Terrace, New York 33, N. Y.

Hoop Hall of Fame

THE National Assn. of (College) Basketball Coaches recently announced that it will sponsor a Hall of Fame project, and that Ed Hickox, retired Springfield College coach, has been instructed to proceed at once with the collection of records, documents, historical material, and relics that might belong in the shrine.

Other members of the Hall of Fame committee include Bill Chandler, Marquette; Everett Dean, Stanford; H. C. Carlson, Pittsburgh; Howard Hobson, Yale; Roy Mundorf, Georgia Tech; Vadal Peterson, Utah; Jack Gray, Texas; George Edwards, Missouri; and John Bunn, Springfield (ex officio).

In 1941, a basketball jubilee campaign to raise funds for a hall of fame ended abruptly when the war broke out. The sponsors of the campaign had intended to have a golden jubilee game played by every basketball team, with the proceeds going to a Naismith memorial and a basketball historical museum.

Since then, the basketball memorial idea has been considered by interested groups who appealed to the National Basketball Coaches Association to assume leadership of the project. The proposal received serious study from a committee of the college basketball coaches who brought their report to the recent Seattle convention.

This investigating committee recommended that the college organization accept the opportunity to revive the project and assume leadership in the matter.

Defensive Stunts

(Continued from page 11)

guard or tackle. The player takes his initial step towards the offensive opponent and places his hands on the man's neck or side. As the opponent drives at him, the defensive player limp-legs the original stepping leg to the rear and quickly steps in with his other foot.

Upon executing the maneuver, the player quickly recovers and plays his territory or the ball.

Submarining. The first movement is to drive well across the line with the chest on the ground and the hands underneath, bringing the rear foot up on the initial drive.

The second movement is to get the feet under the body.

The third movement is to execute a hand stand from the ground.

The fourth step is to follow through.

The player should execute these movements rapidly and smoothly, keeping the head up. If playing two men, he should aim at a spot on the ground between the two as far through as his initial drive will take him. If playing one man, he should drive right through between his legs.

This stunt is used in low-yardage situations or when the opponents are playing high. It can be employed against either a converging or diverging line system to pile up power plays.

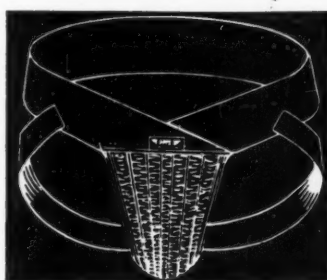
Forearm Shiver. Now used as a maneuver to permit the defensive lineman to neutralize the offensive lineman and move with the ball along the line of scrimmage.

The initial charge with the hands is made from below up, hitting the opponent's shoulder with a lifting movement. The rear foot is brought up with the hands, and the defensive player keeps his feet jogging as he maintains contact.

From this position, the defensive player can push his opponent to one side and go through or slide along the line.

Slicing. Only recommended on long-yardage downs or as a gamble, since the player does not have complete control of his body. When playing a gap, the player should make his initial movement with a twist of his body and slice through the two men.

On long yardage, he can play higher. More of a twist can be used than shown in the illustration. This movement leaves the defensive player momentarily out of control of his body.

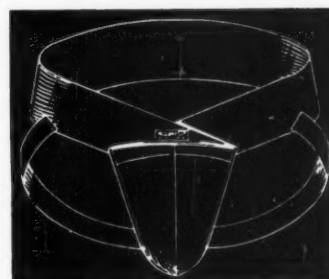


**OLYMPIC CHAMPION
Apex No. 1**

Patented* V-front balanced construction. Mesh-type elastic pouch supporter.

**OLYMPIC CHAMPION
Apex No. 3**

The same patented* features as Apex No. 1 with a soft flannel pouch designed to hold a protective cup.



You'll notice a great difference between any supporter and the Olympic Champion Apex with the patented* V-front. In action one side of the "V" plays against the other. Then like the engineer's principle of stress offset by strain, the pouch holds snug, the waistband and leg straps don't slip or chafe. All in all you'll find the Olympic Champion Apex gives *constant comfort and support no matter what the sport.* Ask for Olympic Champion by name.

* The Olympic Champion Apex basic construction is protected by U. S. Pat. 2,301,066—no licenses have been granted any other manufacturer.

THE O-C MANUFACTURING CO., LITTLE FALLS, N.J.
Quality Athletic Supporters Since 1908

CURTAINS for Your Football Field!

To insure larger gate receipts, enclose your gridiron with a "Taylor Made" Canvas Curtain

★ Made of 10 oz. white canvas with a 3/8" rope sewed in the top and bottom to insure firmness; and a 2" snap every 12 in. on top and bottom. The canvas is reinforced at every snap.

★ Our feature size is 6 ft. or any width you prefer.

★ Price—72¢ per running foot on our feature width. The 100 ft. length is the best size to handle efficiently. You may order any length.

Orders received in April, May and June for September 1st delivery will receive a 5% discount. Write for samples or any further details. YOU CAN'T BEAT THIS BUY.

300 East Pacific **TAYLOR MFG. CO.** Salina, Kansas

Utah H. S. Coaches' Clinic and All-Star Games

AUG. 15-20

Univ. of Utah, Salt Lake City

•
LEO (DUTCH) MEYER, TCU
(Single Wing)

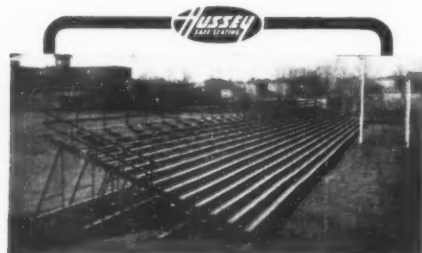
•
JIM AIKEN, Oregon
(T-formation)

•
CLAIR BEE, Long Island
(Basketball)

All-Star basketball game, Aug. 19
All-Star football game, Aug. 20

TUITION \$15.00
Includes tickets to All-Star games

Write to
DON DIXON, 2483 So. 15 East,
Salt Lake City, Utah



UP OR DOWN IN A HURRY!

Hussey (patented) Steel Portable Bleachers are the ideal answer to your problem of safe, satisfactory, and low cost, outdoor or indoor seating. They quickly pay for themselves in added revenue and can be added to as needed or as money is available.

Whether for hundreds or thousands, there's a Hussey portable or permanent stand to meet your exact requirements.

Free Catalog and name of nearest Hussey Distributor on request. Write today to 491 Railroad Street.

HUSSEY MFG. CO. INC.
N. Berwick, Maine

Also, ask for information on "Laughing Loon" Water Sports Equipment—diving boards, swimming floats, float ladders, etc.

Noon-Hour Intramural Program

(Continued from page 42)

minutes early so that they may eat before going on duty.

Four groups of games are utilized every year. Groups one and two are used on alternate weeks the first semester, and groups three and four are employed the second semester.

The student helpers direct these games and help get out and take in the equipment. The grade teachers are assigned to noon duty on alternate weeks, but rarely have to help the student leaders.

Since two groups of games are employed on alternate weeks, a teacher always finds the same games being played whenever he comes on duty. He thus becomes thoroughly familiar with the five games for his week while the pupils get to know and play 10 different games. The only time a change is made is at the end of the first semester.

From the list of students volunteering to help with the noon activities, a list is made out for each semester and a copy posted in each homeroom for handy reference.

By "selling" the students on the plan, it is possible to get quite a large number of helpers. We try to use all who volunteer their services. Sometimes we get some inferior helpers, but by assigning them to groups with experienced aides, we usually get satisfactory work out of them.

While the lower grades have been playing, the upper grades and high school have been in the school cafeteria. At 12:15, the grades leave the gym and spend the rest of the time in play either in their homerooms or outside, at the discretion of the teacher.

Grades seven through high school now arrive for their part of the noon schedule.

As with most schools in this part of the country, our school year is divided into three sport seasons—fall, winter, and spring—for the junior and senior high school groups.

In the fall, we organize the usual games of touch football, soccer, speedball, and others for the high school boys. The pupils list their choices on a check list. All are urged to participate and most of them do, but they are free to do as they choose.

After the list has been completed, captains are selected and teams chosen. The teams and schedules are posted well in advance of the playing dates so that there is no ex-

cuse for anyone not knowing exactly when he is scheduled to play.

One of the first morning duties of the director is to make out game sheets and assign officials for the day's activities. Student officials handle all the games and do a very good job indeed.

The leagues, schedules, etc., are posted on a large bulletin board in the physical director's office. Mimeographed score sheets represent excellent time savers.

Most of the high school pupils get a chance to play from three to five times a week, even when elimination tournaments are scheduled. We try to use all of the space all of the time, and schedule many events at the same time.

We have a rule that games must be played on the scheduled date or be forfeited, unless there is a conflict with another activity. In this contingency, we make the necessary changes.

FACULTY ASSIGNMENTS

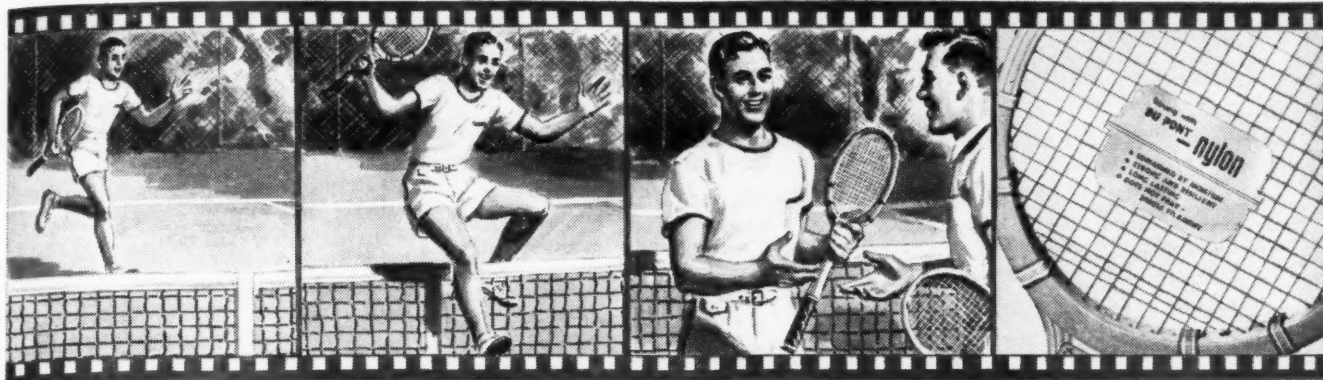
Faculty members are assigned to noon duty on alternate weeks the same as grade teachers. Some are assigned to help out with the physical education activities, and are stationed at key points on the athletic field or in the gym. This leaves the physical director free to go wherever he is needed most. In this way, he is able to give the entire program a quick check from time to time.

At the end of the noon hour, the student helpers see that the equipment is returned to the store-room. Sometimes we have a student handyman work one period a week, checking over equipment and making needed minor repairs. Where the director will look over the equipment from time to time, he can outline the work that requires the most urgent attention.

A few girl helpers also devote a period a week to helping with the checking of playing lists, score sheets, and other numerous clerical details that go with such a program. These girls are usually honor students and are permitted to help as long as they maintain a high scholastic rating.

A noon-hour program, to be successful, must have the enthusiastic support of the student body. Where the program is well-organized and directed, this needed backing will be readily given.

NO OTHER TENNIS STRING OFFERS



THE COMBINED ADVANTAGES OF NYLON

Resists moisture • Does not fray • Strong and resilient • Lasts longer

DU PONT NYLON

Tennis, Squash and Badminton Strings



BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

Your pupils will get better all-round performance from a racket strung with Du Pont nylon. Forehand, backhand or serve . . . they'll like it. What's more, it's durable and long-wearing—stands up against . . . moisture . . . rugged treatment . . . steady use.

Try nylon yourself. You'll see why more and more instructors and students alike are switching to nylon for keeps. Look for the nylon tag. E. I. du Pont de Nemours & Co. (Inc.), Plastics Dept., Wilmington 98, Delaware.

Your Team, Mr. Coach ...Deserves the BEST!



Action comfort, workmanship, and good looks add up to the BEST in athletic apparel, styled by BUTWIN . . . jackets, warm-up suits, capes, travel coats, award blankets. Write TODAY for the name of your nearest BUTWIN dealer.

Reversible Sideline Parka

Brushed wool face reverses to water-repellent, grey cotton twill. Zipper drawstring hood falls back for contrasting color cape. Snap-front closing—on and off in a flash. Length gives full protection. Packs easily. All colors on special order. No. 7050.

Basketball Warm-Up Suits

Lustrous Viking Satin or All-wool Flannel—pullover or snap-front jacket. Pants have elastic waistband and ankle zippers. In all school colors.

- No. 1910—Satin Pullover Jacket
- No. 1915—Satin Snap-front Jacket
- No. 2211—Flannel Pullover Jacket
- No. 2215—Flannel Snap-front Jacket
- No. 1404—Satin Pants, lined
- No. 1405—Flannel Pants, unlined

Write for name of nearest dealer

BUTWIN SPORTSWEAR CO.

FINCH BUILDING
ST. PAUL 1, MINN.



Coaches' Corner

Please send all contributions to this column to Scholastic Coach, Coaches' Corner Dept., 7 East 12th St., New York 3, N. Y.

DISPASSIONATE observers who saw Charlie Trippi's snaking 75-yard punt return in the 1947 pro play-offs, swear that Trippi covered at least 150 yards on that trip. One of the highlights occurred when Charlie stopped short in front of the Eagle bench to let a would-be tackler fly past and land in an abject heap at Coach Greasy Neale's feet.

Neale, by this time, was feeling no pain. He leaned forward and impaled the frustrated tackler with an icy stare. "Get up you so-and-so," Neale snapped. "He'll be back in a minute."

Jimmy Conzelman, the ex-Cardinal mastermind, shudders to think of the time he sent a halfback into a game only to have the player return to the sideline, crestfallen. "They sent me back," he said. "They said they don't want any substitutes."

"Get back in there!" Conzelman roared. "And tell 'em you're not a substitute. They've been playing with ten men for the last two minutes."

The most masterful piece of strategy Jimmy ever pulled occurred in the same Eagle-Cardinal game mentioned in the first story. Because of a hard slick crust on the field, the Cardinals decided to discard their cleats for more practical sneakers. As they were slipping them on, a locker boy burst through the door with some startling news. The Eagles, he said, were filing their cleats in order to make a sharper impression on the turf.

The president of the Cards leaped to his feet. "They can't do that!" he cried. "It's illegal." He was halfway out the door when Conzelman projected a restraining finger. "No use going to the commissioner," Jimmy murmured. "Let's you and me talk this over."

Scarcely a minute after the game began, a whistle blew and a Cardinal could be seen gesticulating before the referee and pointing to one of the Eagle's shoes. The referee looked, then sent the Eagle to the sideline to change footwear. At the same time, he penalized Philadelphia five yards for illegal equipment.

Philadelphia ran another play. Another Card grabbed the referee and pointed to another Eagle's shoes. The referee paced off another five yards. Greasy Neale required no further

demonstration. The Cardinals, rather than expose the Eagles en masse, were calling the infraction play by play, player by player. The Eagles promptly called time out and repaired to their bench for a mass changing of shoes.

(These three nuggets were panned from Charles Einstein's piece, "Conzelman's Crazyhouse of Cards," in *True Magazine*.)

The bride was rich and beautiful, the groom a former Harvard All-American with an immense pair of feet. As they knelt before the bishop on their white satin pillows, a snicker ran through the congregation. On the soles of the groom's wedding shoes, the ushers had printed in red paint, on the left, "To Hell," and on the right, "With Yale."

As the tight-fisted sportswriter approached the stadium, he noticed a blind man holding out his cup. Several fans in the line dropped in coins. Then the cup was extended to the man with the portable typewriter. He passed right by. "Working press," he grunted.

One of our triple-threat mistake-spotters fell on a little fumble in our March issue, which we feel deserves a correction. On page 34 we stated: "A wet lime should be used in marking the sidelines and yard stripes. A dry line has a caustic effect on the eyes and skin." That word, *lime*, should have read *line*.

Our friends, the H. & R. Mfg. Co., tell us that one of the distinct advantages of a dry marker stems from the fact that it is not necessary to use lime at all. The dry marker will handle talc, gypsum, marble dust, chalk, and many other white powders. These are not caustic. Talc, for instance, is employed in the manufacture of talcum powder and numerous face creams.

You may be interested to know

that the H. & R. dry marker was used at the Olympic Games. The substance used was marble dust.

Having rounded up all the winners of the state high school basketball tourneys (see page 36, May issue), we can now give you the 10 schoolboy teams that topped the nation for 1948-49. This list is based solely on won-lost records in Class AA or A competition.

High School	Won	Lost
Humboldt, Tenn.	44	0
Aliquippa, Pa.	29	0
Paschal, Fort Worth, Tex. ...	25	0
El Reno, Okla.	24	0
St. Aloysius, New Orleans. 22	0	
Miami Sr., Fla.	29	1
Fairmont West, W. Va.	24	1
West Orange, N. J.	21	1
Ottumwa, Iowa	18	1
Lewis & Clarke, Spokane. .	18	1

One team that definitely belongs up there is Tucson (Ariz.) Hi. The Arizona hot shots didn't lose a game last season. Unfortunately, however, we don't know exactly how many they won. This, incidentally, marked the second straight season Tucson went through unbeaten.

The only other repeating champions were Manual Hi, of Denver, Colo.; and Miami (Fla.) Sr. Hi.

Perhaps the outstanding basketball record in the country belongs to the Baxley (Ga.) High School girls team. The Baxley gals have put together three state Class B diadems and 109 victories in a row! They haven't tasted defeat since bowing out in the first round of the 1946 state tourney!

Alas for Dave Prager, of Memphis, Tenn. He loved his (two) wives and his (two) basketball teams not wisely but too well. Prager is the guy who embezzled nearly \$30,000 from his company's funds in order to air-commute between his two wives (Memphis and Los Angeles) and entertain



Movie-Radio Guide

"He says I'm running like a gazelle!"

PAGE *Stainless Steel* TENNIS-NETS

Up summer and winter
for 8 years and "still
almost like new!"

Gould Shaw
Warrenton, Va.

PUT UP A PAGE FOR BEST NET RESULTS

Approved by coaches and administrators because of constantly maintained playing height, rebound control and smooth, non-injurious surface. Tension is easily regulated. Stainless steel wire is corrosion-resisting and will not harm balls nor players. Top finish and center band are heavy canvas.

Approved by superintendents because of great strength and economy. Net can be put up *once* and left in position all season. Replacement not necessary for many years. Maintenance costs are practically eliminated. PAGE Net Posts are specially designed, sturdy and will add to the life of the net.

Monessen, Pa., Atlanta, Chicago, Denver, Detroit, Los Angeles, New York,
Philadelphia, Pittsburgh, Portland, San Francisco, Bridgeport, Conn.

PAGE STEEL AND WIRE DIVISION
AMERICAN CHAIN & CABLE



Write for descriptive,
illustrated literature



ACCO



SMOOTH PERFORMANCE

The Batrite better
balance means smoother
swing—extra power.



THE HANNA MANUFACTURING COMPANY, ATHENS, GEORGIA

SPRINGFIELD COLLEGE

SUMMER SESSION COURSES

July 6—Aug. 9, 1949

An Extraordinary Opportunity
for Detailed Expert Instruction

1. Football Aldo T. Donelli, Boston U.
2. Basketball Vadal Peterson, U. of Utah
3. Baseball Ethan Allen, Yale
4. Track Emil Von Elling, New York U.

Beginning and Advanced Courses,
60 Hours in Each Sport
Regular College Credit Given

Write for Summer Session Bulletin to
DIRECTOR OF ADMISSIONS
Springfield College Springfield 9, Mass.

Ohio High School Football Coaches Association

4th Annual Coaching School
Aug. 9 to 13 Massillon, Ohio

FEATURING THE NATION'S LARGEST
COACHING SCHOOL STAFF

Wes Fesler Ohio State
Sid Gillman Cincinnati
Stu Holcomb Purdue
Frank Murray Marquette
Charles Barrett Columbia
Rae Crowther Pennsylvania
Jack Blott Michigan
Jack Mollenkopf Purdue
Esco Sarkkinen Ohio State
Joe Madro Cincinnati
... and 20 other Ohio College
Coaches!

TUITION

\$10, members — \$15, non-members

Ohio All-Star Game—Aug. 13

For registration or information write

CHARLES MATHER
Washington High School, Massillon, O.

his hoopsters—a couple of amateur teams playing under his company's banner.

A Broadway bookie passed away and his pals, eager to send him off in style, hired a minister to conduct the services. Two-thirds of the way through, the minister grandiloquently announced: "Brother Jake is not dead, he is sleeping."

From the back of the room, crowded with bookies, touts, and card sharps, came a voice, loud and clear: "I'll lay 8 to 5 on that."

Here's a nice stumper for you baseball fans: How can a team play an official nine-inning game with every player winding up with the identical batting average he had at the start?

Give up? Well, this actually happened on the opening day of the 1940 season when Bob Feller pitched a no-hitter against the Chicago White Sox. Each Sox started the game with an .000 average and wound up with precisely the same percentage.

Our lord high chancellor on all matters pertaining to soccer, Milt Miller, wants us to know that the booting sport has finally "arrived." It now boasts a parlor game on a par with any of the myriad football or baseball table pastimes. Called "Table Soccer" or "Subbuteo," this game was invented by an Englishman and is played with 22 miniature men, a ball, and goals. There is "no dice, no blowing, no cards or board." Victory or defeat rests solely on the skill of the player. For full details, write Soccer Associates, 10 Overlook Terrace, New York 33, N. Y.

Can any of you collectors of track records help Coach George A. Johnson of East Junior High School, Warren, O.? He has a 15-year-old boy in the ninth grade who has hurled the discus 135 feet and the shot, 42 feet; and wants to know whether these are records for junior high competition.

Those national high school track records are sure taking a beating this year. Two months ago, the broad jump mark was cracked; and now it's the discus record. On May 13, Clyde Gardner of Newton, Ia., heaved the platter 179 feet 2¾ inches, bettering the existing record by nearly 3 feet.

If you're looking for some genuine 24-carat bargains in baseball equipment, feast your eyes on the Post's Cereals offer on page 49. Under the super P.C. team plan, you can purchase a raft of official Spalding and Wilson baseball gear at a 50% saving! Every item of equipment is included—bats, balls, gloves, protectors, bases, etc. Complete details may be found in the Post's Cereals "Team Plan" Catalog. For your free copy, fill in the coupon in the advertisement or check the Master Coupon under "Post's Cereals" on page 64.

TEXAS HIGH SCHOOL COACHES ASSOCIATION

Annual Coaching School

★★★ August 1-5
Beaumont, Tex.

★★★ STAFF

DON FAUROT
Missouri Football

CARL SNAVELY
North Carolina Football

ADOLPH RUPP
Kentucky Basketball

HANK IBA
Oklahoma A.&M. Basketball

EMMETT BRUNSON
Rice Institute Track

MARTY KAROW
Texas A. & M. Baseball

EDDIE WOJECKI
Rice Institute Training

—plus other Coach-Instructors and All-Star Football and Basketball games. For full particulars, write:

L. W. McCONACHIE
2901 COPPER STREET, EL PASO, TEXAS

DOANE COLLEGE COACHING SCHOOL July 25-29 Crete, Nebr.

FOOTBALL

- Biggie Munn, Michigan St.
"Single Wing"
- Howie Odell, Washington
"T Formation"
- Bill Glassford, Nebraska
"T Formation"
- Six-Man Football Coach

BASKETBALL

- Ed Hickey, St. Louis U.

TRAINING

- Frank Cramer

Tuition: \$15.00

(Board and Room \$10)

Excellent facilities in two large dormitories for housing, families or single. Plenty of recreation facilities.

For further information, write:

JIM DUTCHER

Doane College, Crete, Nebraska

Student Sportsmanship

STUDENTS are the most important factors in school sportsmanship. Their habits and reactions quite largely determine its quality. The better schools are those in which there is a consciousness on the part of the students to share equal responsibility with the faculty, alumni, and community for establishing and maintaining good school practices and traditions.

The following suggestions will serve as a guide for the student so that he will know what he should or should not do to carry out his responsibility at athletic contests.

The individual student should:

1. Consider his athletic opponents and officials as guests and should treat them as such.
2. Respect the rights of students from the opposing school.
3. Respect the rights of all spectators.
4. Respect the authority and judgment of the coach.
5. Respect the property of the school and the authority of school officials.
6. Cheer both teams as they come on the field of play.
7. Commend or cheer good plays by either team.
8. Cheer an injured player when he is removed from the game.
9. Support his cheerleaders wholeheartedly.
10. Accept the officials' decisions as final.
11. Show self-control at all times during and after the game.
12. Be modest in victory and gracious in defeat.
13. Consider it his privilege and duty to encourage every one (players and spectators alike) to live up to the spirit of the rules of fair play and sportsmanship.

The individual student should not:

1. Boo or razz officials or players at any time.
2. Applaud errors by opponents or penalties inflicted upon them.
3. Yell while opponent is shooting a free throw.
4. Yell while the opposing cheerleaders are leading cheers.
5. Yell for or demand a substitution or withdrawal by the coach.
6. Use profane language at any time during the game.
7. Be obnoxious to his fellow spectators nor exhibit rowdiness in any form.

PLASTIC ROCK SAVED THIS STADIUM

Is Your Stadium "in Condition?"

SPALLING MEANS TROUBLE!

"Listen to" spalling surfaces, leaks, cracks and other signs of deterioration. Take them in time; safeguard your stadium against weather and wear for years to come. Plastic Rock is the enduring answer. It adheres permanently to concrete, wood and steel; wears like iron; is slip-proof

wet or dry, preventing accidents. Packed complete in barrels, Plastic Rock involves no "trick" formula. It excels, too, for floors of corridors, ramps, locker and wash rooms. A comprehensive report, eliminating guesswork, to keep or put your stadium "in condition," is yours for the asking. Also,

WRITE ON YOUR LETTERHEAD FOR REPORT 220-C-6

**UNITED
LABORATORIES, Inc.**
Euclid Ave. near Ivanhoe
CLEVELAND 12, OHIO



**PRODUCTS AND PROCESSES
for PROTECTING PROPERTY**

Field Representatives All Over The World



New Sectional Steel Bleachers

**WRITE FOR
FREE FOLDER!**

**A FEW TERRITORIES
STILL AVAILABLE**

Factory Built - Low Cost!

Plan new bleachers or increased seating capacity the Kerrigan way. Many schools have erected these factory-built permanent steel bleachers at a great saving in cost. For complete information, write for catalog 13-E.

ENGINEERING DEPARTMENT

KERRIGAN IRON WORKS, INC.

NASHVILLE

TENNESSEE

A GREAT NAME IN FOOTBALL

THE MICHIGAN JUGGERNAUTS OF 1901-5



One of the most amazing successions of football teams ever put together were Fielding H. ("Hurry-Up") Yost's University of Michigan elevens of 1901 through 1905. In that five year span, Michigan won 55 games, tied one, and finally lost one in 1905—to Chicago by 2-0 on a safety. They scored a total of 2821 points to their opponents' 40.

PRESENTED BY

A GREAT NAME IN FABRICS

Like those magnificent Michigan elevens, Kahnfast Quality Fabrics are consistently good, consistently worn by the best-equipped football teams in the land. More colorful and more durable, they are truly "fabrics of champions"—for champions.



ARTHUR KAHN CO., Inc. • 444 Fourth Ave., New York 16, N.Y.

STANDING ROOM ONLY!



Will you be among those who lose paid admissions at Summer and Fall sporting events by hanging out such a sign?

Perhaps some who are forced to stand and view games will return but they MAY stay away from future contests and listen to the radio broadcast.

There is still ample time to increase, and hold, attendance by securing bleacher, or grandstand, seating from one of the oldest manufacturers in the business.

For full information and estimates write the

LEAVITT CORPORATION

ESTABLISHED 1895

BOX 33, URBANA, ILLINOIS

8. Throw things on the field or playing court.
9. Argue or develop the "sore-head" attitude.
10. Place bets on the outcome of the game.
11. Molest the referees after the game.
12. Criticize his players or coach for losing the game.
13. Boast in victory nor alibi in defeat.

The individual student should abide by the Golden Rule: "Do unto others as you would have others do unto you."

NOTE: This article appeared in the Bulletin of the National Association of Secondary-School Principals, and is distributed to every student at the Aurora (Ill.) West High School.

The Raw Recruit

THE Village Green Reading Society is maybe the most exclusive organization in the Western Hemisphere, being even tougher to crack than the Fruit-of-the-Month Club. It is composed of a small group of admirers of the good, the true and Herman Hickman, who gather once a year to exchange poetical recitations with Friar Tuck (Hickman), the Bard of Johnson City, Tenn., and former champion elocutionist of Johnson City High.

Mr. Hickman's contribution to this year's meeting was a moving rendition of a masterpiece entitled, *The Raw Recruit*, which the Bard delivered from memory as follows:

*Coach, my name is Johnny Johnson,
And I hail from Lund, Wisconsin.
In the buff, I weigh a flat two hundred pounds.
I'm the All-Scholastic center
And a Western baseball mentor
Says my equal as a pitcher can't be found.*

*But such craze I have for knowledge
Which no place but old Blank College,
With its Eastern culture can ever supply,
That just for a little starter
I adopt her, Alma Mater—
For dear old Blank I'd sure be glad to die.*

*But old Dad passed out last summer,
Leaving six of us with Mummer
And a heavy mortgage on the home—
stead, too.
Though I haven't got a dollar,
Still I pine to be a scholar.
In your answer, specify what you can do.*

*P. S.—Make your answer good and speedy,
For, you see, I'm awful needy,
And these Western schools are offering a lot.
Only room and board and carfare
Ain't a-gonna get you nowhere—
Put it there, and I'll be Johnny-on-the-spot.*

—Red Smith in N. Y. Herald Tribune

EDITORIAL ADVISORY BOARD

NATIONAL FEDERATION

R. E. RAWLINS, *Ex-President*

H. V. PORTER, *Secretary-Treasurer*

HIGH SCHOOL

V. S. BLANCHARD, *President*
AMERICAN ASSN. for HEALTH,
PHYS. ED. and RECREATION

PAUL KELLY, *Athletic Director*
RILEY H. S., SOUTH BEND, IND.

L. L. McLUCAS, *Supervisor*
HEALTH and PHYS. ED.,
DUVAL COUNTY, FLA.

V. L. MORRISON, *Athletic Director*
TECHNICAL H. S., ST. CLOUD, MINN.

FLOYD A. ROWE, *Directing Supervisor*
PHYSICAL WELFARE, CLEVELAND
PUBLIC SCHOOLS

DAVID P. SNYDER, *Director*
PHYS. ED., OAKLAND PUBLIC
SCHOOLS, CAL.

CHALMER WOODARD, *Coach*
LIBERTY H. S., LAWRENCE, KANS.

AMATEUR ATHLETIC UNION

DANIEL J. FERRIS, *Secretary-Treasurer*

COLLEGE

ETHAN ALLEN, *Baseball Coach*
YALE UNIVERSITY

O. B. COWLES, *Basketball Coach*
UNIVERSITY OF MINNESOTA

DEAN CROMWELL, *Ex-Track Coach*
UNIVERSITY OF SO. CALIFORNIA

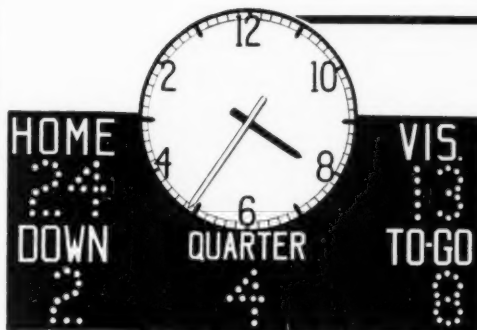
THOMAS K. CURETON, *Professor*
PHYS. ED., UNIV. of ILLINOIS

STANDARD LAMBERT, *Ath. Director*
LAMAR COLLEGE (TEX.)

LOU LITTLE, *Football Coach*
COLUMBIA UNIVERSITY

JAY B. NASH, *Chairman*
DEPT. of PHYS. ED and HEALTH,
NEW YORK UNIVERSITY

F. S. O'CONNOR, *Athletic Dept.*
UNIVERSITY OF IOWA



A Complete Line of Electric Scoreboards Are Available
We Build Scoreboards to Your Specifications

NADEN & SONS

WEBSTER CITY, IOWA

WRITE
FOR THE
NEW
NADEN
CATALOG



CHICAGO GRENADIERS
BRAND
LEATHER BASKETBALL NETS
Natural Tan Only

E. O. MEACHAM CO.
3510-12 S. Michigan Blvd.
Chicago 15, Ill.

Chicago—New York—New Orleans—Denver
—Brooklyn—Boston—Detroit—Philadelphia
—San Francisco—Cleveland—Miami—Pittsburgh—Seattle
—Kansas City—Los Angeles—Washington, D. C.—Cincinnati
—Memphis—Portland—Minneapolis—San Antonio.

WESTERN ILLINOIS ST. COLLEGE

COACHING CLINIC, July 7

FOOTBALL, BASKETBALL, OFFICIATING

• Stu Holcomb, Purdue • Chuck Taylor, Converse
• Harry Combes, Ill. • Ike Craig, Chicago
• Ronald Gibbs, Springfield

Free of charge! One day only

RAY HANSON, *Western Ill. St. College*
Macomb, Ill.

MASTER COUPON

To obtain free literature and sample goods, carefully check items desired and mail coupon directly to Scholastic Coach Advertising Dept., 7 E. 12 Street, New York 3, N. Y.

Numbers in parentheses denote pages on which the advertisements may be found. Please check the items personally, and to be sure of getting the type of service or information you desire, refer back to the advertisement before checking the listing.

AMERICAN CHAIN & CABLE (59)

- ☐ Literature on Stainless Steel Tennis Nets

AMERICAN COACHES SUPPLY (64)

- ☐ Information on Magic Instructor's Slate

AMERICAN WIRE (31)

- ☐ Folder on Locker Baskets and Uniform Hanger

BIKE WEB (41)

- ☐ Catalog
- ☐ Coaches and Trainers Handbook

BROOKS SHOE (4)

- ☐ Catalog on Athletic Footwear

BUTWIN SPORTSWEAR (57)

- ☐ Information on Sports Jackets, Sideline Parkas, Basketball Warm-Up Suits
- ☐ Name of Nearest Dealer

CASTELLO FENCING (50)

- ☐ Catalog
- ☐ Information on How to Form, Equip, Train, and Schedule a Team

CEDAR KRAFT (28)

- ☐ Information on Electric Scoreboards

COACHING SCHOOLS

- ☐ Arizona Coaches (48)
- ☐ Bethany Coll. (54)
- ☐ Doane Coll. (60)
- ☐ Georgia Coaches (48)
- ☐ Ohio Football (60)

- ☐ Rocky Mt. (52)
- ☐ Springfield Coll. (60)
- ☐ Texas Coaches (60)
- ☐ Utah Coaches (56)
- ☐ Western Ill. St. (63)

CROUSE-HINDS (43)

- ☐ Bulletins for Lighting of Baseball, Football, and Softball Fields

EAGLE METALART (29)

- ☐ Catalog of Trophies, Medals, Emblems, Banners

JOHN B. FLAHERTY (44)

- ☐ Information on Knee and Elbow "Bub" Protectors

GENERAL SPORTCRAFT (2)

- ☐ Rules Booklets for Badminton, Deck Tennis, Shuffleboard, Table Tennis, Bat Tennis

H. & R. MFG. (26)

- ☐ Information on Dry Markers

HAND KNIT HOSIERY (18)

- ☐ Information on Shrink-Treated Athletic Socks

HANNA MFG. (59)

- ☐ Catalog on Baseball and Softball Bats

HILLERICH & BRADSBY (23)

- ☐ Famous Sluggers Yearbook
- ☐ Softball Rules
- ☐ Catalog on Grand Slam Golf Clubs

HILLYARD SALES (53)

- ☐ Book, "Job Specifications on Floor Treatment and Maintenance"

HODGMAN RUBBER (47)

- ☐ Catalog on Reducing Shirts, Warmup Jackets, Hooded Capes, Sideline Parkas

HORN BROS. (50)

- ☐ Booklet, "Modern School Plans"
- ☐ Details on the "3 in 1 Horn Gym Plan"

HUNTINGTON LABS. (21)

- ☐ Basketball Coaches' Digest

HUSSEY MFG. (56)

- ☐ Shot Charts Booklet
- ☐ Facts on Seal-O-San
- ☐ Catalog on Steel Portable Bleachers and Grandstands

ARTHUR KAHN (62)

- ☐ Addresses of Nearest Uniform Makers

KANDEL KNITTING (35)

- ☐ Information on Letterman Sweaters

KERRIGAN IRON (61)

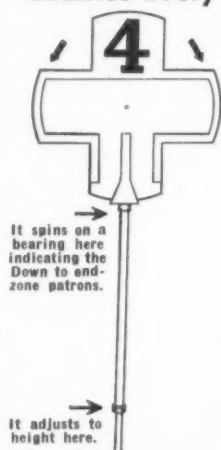
- ☐ Catalog on Permanent Steel Grandstands

BRADLEY LAYBURN (30)

- ☐ Information on Gym and Playground Apparatus, Portable Bleachers, Electric Scoreboards

SEE PAGE 64 FOR OTHER LISTINGS AND FORM FOR SIGNATURE

Enables Every Fan to Follow the Ball and See the Down!



SCHALL'S DOWN INDICATOR

- A bronze bearing permits the upper part of the indicator to function in a gyratory manner.
- Made of masonite and aluminum; black numerals on a white field.
- Lightweight, strong, easy to handle.
- Staff may be disengaged from rest of device.
- Press down at either arrow to change the down.

PRICE \$37.50

Order now for your opening game, direct from

SCHALL'S DOWN INDICATOR
2201 K STREET, SACRAMENTO 16, CALIF.

The Magic Instructor's Slate

A 13" by 19" slate in handsome portfolio... your writing disappears with the flick of the wrist... comes plain for all sports or available with a basketball court printed on... the perfect on-the-spot coaching aid.

\$4.95 plus C.O.D. charge

AMERICAN COACHES SUPPLY CO.
Suite 601, 22 West Monroe St.
Chicago, Ill.

SELL SPORTING GOODS

- TEACHERS
- COACHES
- ATHLETIC DIRECTORS

Write for details

SOLIN SPORTING GOODS COMPANY
414 East Tremont Ave., New York 57, N. Y.

MASTER COUPON

(See page 63 for other listings)

(Numbers in parentheses denote page on which advertisement may be found)

LEAVITT CORP. (62)

- ☐ Information on Bleachers and Grandstands

LINEN THREAD

(Inside Front Cover)

Full information on

- ☐ Tennis Nets ☐ Goal Nets
- ☐ Protection Nets
- ☐ Gym Dividing Nets
- ☐ Baseball Batting Cage Nets

MARBA, INC. (22)

- ☐ Information on Athletic Equipment Reconditioning

E. O. MEACHAM (63)

- ☐ Information on Leather Basketball Nets

FRED MEDART (15)

- ☐ Book, "Physical Training, Practical Suggestions for the Instructor"
- ☐ Catalog on Telescopic Gym Seats, Steel Lockers
- ☐ Information, Acromat-Trampoline
- ☐ Catalog on Basketball Backstops, Scoreboards

McLAUGHLIN-MILLARD

(Inside Back Cover)

- ☐ Catalog on Adirondack Baseball Bats

O. F. MOSSBERG (35)

- ☐ Catalog on Target Rifles
- ☐ "The Guidebook to Rifle Marksmanship"

MUTUAL LIFE (16)

- ☐ Booklet, "The Career for Me"

NADEN & SONS (63)

- ☐ Catalog on Electric Scoreboards and Timers

NATIONAL SPORTS (33)

- ☐ Catalogs: Bases, Mats, Rings, Training Bags, Wall Pads, Pad Covers

NISSSEN TRAMPOLINE (51)

- ☐ Literature
- ☐ Booklet, "Tips on Trampolining"

O-C MFG. (55)

- ☐ Information on V-Front Apex Supporters

OCEAN POOL (54)

- ☐ Information on Trunks, Swim Fins, Kick Boards, Nose Clips, Caps, Kloas

OHIO-KENTUCKY MFG. (46)

- ☐ Catalog on Complete Line of Balls, Gloves, and Striking Bags

POST'S CEREALS (49)

- ☐ Team Plan Catalog of Baseball Equipment

POWERS MFG. (51)

- ☐ Spring and Summer Catalog on Baseball and Softball Uniforms

RAWLINGS MFG. (3)

- ☐ Catalog
- ☐ REVERE ELECTRIC (36)

- ☐ Sports Floodlighting Bulletin

Catalog

JOHN T. RIDDELL (24)

- ☐ Information on Suspension Helmets, Shoes, Balls, Track Supplies

SCHALL'S DOWN INDICATOR (64)

- ☐ Information

SEAMLESS RUBBER (19)

- ☐ Catalog on Kolite Basketballs, Footballs, Soccer Balls

SOLIN SPTG. GOODS (64)

- ☐ Catalog and Fabric Samples on Baseball Uniforms, Equipment, Warm-Up Jackets, Award Sweaters
- ☐ Information on Selling Offer

SPALDING & BROS. (1)

- ☐ Catalog
- ☐ Sports Show Book (See Feb. adv. for free rental of "The Double Play Kings of Baseball")

STEWART IRON (39)

- ☐ Information on Fences and Metal Specialties

TAYLOR MFG. CO. (55)

- ☐ Information on Javelin and Discus Spot Markers, Basketball Bags, and Wrestling Mat Covers
- ☐ Information on Canvas Football Field Enclosure

UNITED LABS. (61)

- ☐ Bulletin on Stadium Repair

UNIVERSAL BLEACHER (53)

- ☐ Catalog on Portable Steel Bleachers

WILSON SPORTING (6)

- ☐ Catalog

WYETH, INC. (45)

- ☐ Information on Sopronol for Athlete's Foot and Athlete's Itch

AMERICAN CHAIN & CABLE COMPANY	39
AMERICAN COACHES SUPPLY COMPANY	64
AMERICAN WIRE FORM COMPANY, INC.	31
ARIZONA HIGH SCHOOL COACHES ASSOCIATION	48
BETHANY COLLEGE COACHING SCHOOL	54
BIKE-WEB MANUFACTURING COMPANY	41
BROOKS SHOE MANUFACTURING COMPANY	4
BUTWIN SPORTSWEAR COMPANY	57
CASTELLO FENCING EQUIPMENT COMPANY	50
CEDAR KRAFT COMPANY	28
CROUSE-HINDS COMPANY	43
DOANE COLLEGE COACHING SCHOOL	60
DU PONT DE NEMOURS, E. I., & CO., INC.	57
EAGLE METALART COMPANY	29
FLAHERTY, JOHN B., COMPANY	44
GENERAL FOODS CORPORATION	49
GENERAL SPORTCRAFT, LTD.	2
GEORGIA ATHLETIC COACHES ASSN.	48
H. & R. MANUFACTURING COMPANY	26
HAND KNIT HOSIERY COMPANY	18
HANNA MANUFACTURING COMPANY	59
HILLERICH & BRADSBY COMPANY	23
HILLYARD SALES COMPANIES	53
HODGMAN RUBBER COMPANY	47
HORN BROTHERS COMPANY	50
HUNTINGTON LABORATORIES, INC.	21
HUSSEY MANUFACTURING COMPANY	56
IVORY SYSTEM	4th Cover
KAHN, ARTHUR, COMPANY	62
KANDEL KNITTING MILLS	35
KERRIGAN IRON WORKS, INC.	61
LAYBURN, BRADLEY M., COMPANY	30
LEAVITT CORPORATION	62
LINEN THREAD COMPANY	2nd Cover
MacGREGOR-GOLDSMITH, INC.	17
McLAUGHLIN-MILLARD, INC.	3rd Cover
MARBA, INC.	22
MEACHAM, E. O., COMPANY	63
MEDART, FRED, PRODUCTS, INC.	15
MOSSBERG, O. F., & SONS	35
MUTUAL LIFE INSURANCE CO. OF N. Y.	16
NADEN & SONS ELECTRIC SCOREBOARD COMPANY	63
NATIONAL SPORTS EQUIPMENT COMPANY	33
NISSSEN TRAMPOLINE, THE	51
O-C MANUFACTURING COMPANY	55
OCEAN POOL SUPPLY COMPANY	54
OHIO HIGH SCHOOL FOOTBALL COACHES ASSOCIATION	60
OHIO-KENTUCKY MANUFACTURING COMPANY	46
POWERS MANUFACTURING COMPANY	51
RAWLINGS MANUFACTURING COMPANY	3
REVERE ELECTRIC COMPANY	36
RIDDELL, JOHN T., INC.	24
ROCKY MOUNTAIN COACHING SCHOOL	52
SCHALL'S DOWN INDICATOR	64
SEAMLESS RUBBER COMPANY	19
SOLIN SPORTING GOODS COMPANY	64
SPALDING, A. G., & BROS.	1
SPRINGFIELD COLLEGE	60
STEWART IRON WORKS COMPANY, INC.	39
TAYLOR MANUFACTURING COMPANY	53
TEXAS HIGH SCHOOL COACHES ASSOCIATION	60
UNITED LABORATORIES, INC.	61
UNIVERSAL BLEACHER COMPANY	53
UTAH HIGH SCHOOL COACHES ASSOCIATION	56
WESTERN ILLINOIS ST. COLLEGE COACHING CLINIC	63
WILSON SPORTING GOODS COMPANY	6
WYETH, INC.	45

NAME _____ POSITION _____

(Principal, coach, athletic director, physical director)

SCHOOL _____ ENROLLMENT _____

CITY _____ STATE _____

No coupon honored unless position is stated

June, 1949

7
0
3
0
7
9
4
19
2
8
16
18
39
23
53
47
50
21
56
er
62
35
61
30
62
ver
17
ver
22
63
15
35
16
63
33
51
55
54
60
46
51
3
36
24
52
64
19
64
1
60
39
55
60
61
53
56
63
6
45